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1901/02



Georgetown University  
School of Medicine,  
Washington, D. C.

UNIVERSITY OF ILLINOIS

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PRESIDENT'S OFFICE.

CIRCULAR OF INFORMATION.

1901-1902.

Georgetown University 1901-02

## TEXT-BOOKS.

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The following works are recommended by the Faculty as text-books and for collateral reading. The latest editions should always be procured:

*Practice of Medicine*.—Tyson; Osler; Wood and Fitz; Pepper's American Text-Book; Anders; Jakob; Eichlorst.

*Surgery*.—American Text-Book of Surgery; International Text-Book of Surgery; Senn; Wyeth; Dennis' System of Surgery; Park; Zuckerkandl's Operative Surgery; Warren's Surgical Pathology.

*Obstetrics*.—Lusk; Parvin; Reynolds; Jewett; Hirst; American Text-Book of Obstetrics.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Anatomy*.—Gray, Morris or Quain; Heath's Dissector; Treves' Applied Anatomy.

*Physiology*.—American Text-Book; Kirk; Stewart.

*Chemistry*.—Remsen; Roscoe; Harris' Qualitative Analysis; Purdy; Tyson or Whipple on Urine; Witthaus' and Becker's Toxicology. Tanner on Poisons.

*Materia Medica*.—Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood; Hare; Potter.

*Medical Jurisprudence*.—Reese; Taylor; Tidy.

*Hygiene*.—Notter and Firth; Parkes; Egbert.

*Ophthalmology*.—Fuchs; Syllabus of lectures on Ophthalmology by Swan M. Burnett; de Schweinitz; Jackson; Astigmatism, by Swan M. Burnett; American System of Ophthalmology, Otology, and Laryngology; Suter's Handbook of Optics; Ophthalmic Lenses by C. F. Prentice.

*Otology*.—Poltzer; Dench.

*Laryngology and Rhinology*.—Mackenzie; Brown; Bosworth.

*Physical Diagnosis*.—Loomis; Vierordt; Hare; Tyson.

*Histology*.—Stohr; Shafer's Essentials; Stirling; Piersol; Bohm and Davidoff; and Hubers.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Stengel.

*Bacteriology*.—Levy and Klemperer; Abbott; McFarland.

*Mental Diseases*.—Blandford on Insanity; Clouston on Mental Diseases; Griesinger on Mental Pathology and Therapeutics; Spitzka on Insanity; Mills' Nervous System; Chapin's Compendium.

*Embryology*.—Heisler; Marshall; Hertwig.

*Parasites*.—Neumann; Braun.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclopædia; Taylor and Wells.

*Dermatology*.—Hyde; Kaposi; Jackson.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

UNIVERSITY OF ILLINOIS

PRESIDENT'S OFFICE

## Calendar for 1901=1902.

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1901.

SEPT. 28 and 30.—Examination for admission and re-examinations 2 P. M.

OCT. 1.—Lectures begin at 1.30 P. M.

NOV. 28, 29 and 30.—Thanksgiving holidays.

DEC. 21.—Christmas recess begins at 5 P. M.

1902.

JAN. 2.—Lectures resumed.

FEB. 22.—Legal holiday.

MAR. 26.—Easter recess begins 5 P. M.

APRIL 1.—Lectures resumed.

MAY 10.—Lecture courses completed.

MAY 12.—Examinations begin.

MAY 31.—Commencement.

# Faculty.

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REV. JOHN D. WHITNEY, S. J.,  
President of Georgetown University.

H. D. FRY, M. D.,  
Emeritus Professor of Obstetrics and Clinical Professor of Gynecology,  
1601 Connecticut Avenue.

JOSEPH TABER JOHNSON, A. M., M. D., PH. D.,  
Professor of Gynecology and Abdominal Surgery; Vice-President of the Faculty,  
1728 K Street.

GEORGE M. KOBER, M. D.,  
Professor of Hygiene and State Medicine; Dean and Treasurer of the Faculty,  
1600 T Street.

C. H. A. KLEINSCHMIDT, M. D., PH. D.,  
Professor of Physiology, 3048 N Street.

FRANK BAKER, A. M., M. D., PH. D.,  
Professor of Anatomy, 1728 Columbia Road.

G. LLOYD MAGRUDER, A. M., M. D.,  
Professor of Materia Medica and Therapeutics, 815 Vermont Avenue.

GEORGE T. VAUGHAN, M. D.,  
Professor of Principles and Practice of Surgery, 816 Seventeenth Street.

SAMUEL S. ADAMS, A. M., M. D.,  
Professor of Theory and Practice of Medicine and Diseases of Children,  
1 Dupont Circle.

SWAN M. BURNETT, M. D., PH. D.,  
Professor of Ophthalmology and Otology, 916 Seventeenth Street.

T. MORRIS MURRAY, M. D.,  
Professor of Physical Diagnosis, Laryngology and Rhinology, 730 Seventeenth St.

JOHN D. HIRD, A. M.,  
Professor of Chemistry and Toxicology, 305 T Street N. E.

JOHN F. MORAN, A. B., M. D.,  
Professor of Obstetrics, 2426 Pennsylvania Avenue.

W. C. BORDEN, M. D., U. S. A.,  
Professor of Surgical Pathology and Military Surgery, Washington Barracks.

I. W. BLACKBURN, M. D.,  
Professor of Morbid Anatomy, St. Elizabeth's Hospital.

CH. WARDELL STILES, A. M., PH. D.,  
Professor of Medical Zoology, 1362 B Street S. W.

J. C. MCGUIRE, A. M., M. D.,  
Professor of Dermatology, 818 Seventeenth Street.

HUGH M. SMITH, M. D.,  
Professor of Normal Histology, 1248 New Jersey Avenue.



- EDWIN B. BEHREND, A. B., M. D.,  
Professor of Pathology and Bacteriology, 1214 K Street.
- JOHN W. BAYNE, M. D.,  
Professor of Clinical Surgery, 116 Second Street S. E.
- HARRISON CROOK, M. D.,  
Professor of Clinical Surgery, 918 Fourteenth Street.
- M. F. CUTHBERT, M. D.,  
Professor of Clinical Medicine, 1462 Rhode Island Avenue.
- I. S. STONE, M. D.,  
Professor of Clinical Gynecology, 1449 Rhode Island Avenue.
- THOMAS N. VINCENT, A. M., M. D.,  
Professor of Clinical Medicine, 1221 N Street.
- J. DUDLEY MORGAN, A. M., M. D.,  
Professor of Clinical Medicine, 919 Fifteenth Street.
- A. B. RICHARDSON, M. D.,  
Clinical Professor of Mental and Nervous Diseases, Government Hospital  
for the Insane.
- THOMAS F. MALLAN, M. D.,  
Professor of Clinical Surgery, 27 B Street S. E.
- D. P. HICKLING, M. D.,  
Professor of Clinical Surgery, 221 Third Street N. W.
- C. R. DUFOUR, PHAR. D., M. D.,  
Instructor of Ophthalmology and Otolaryngology, 1343 L Street.
- W. SINCLAIR BOWEN, M. D.,  
Assistant to Professor of Gynecology and Abdominal Surgery, 1228 Sixteenth St.
- EMORY W. REISINGER, M. D.,  
Assistant to Professor of Anatomy, in charge of Osteology and Demonstrator of  
Anatomy, 1209 Thirteenth Street.
- WALTER A. WELLS, M. D.,  
Demonstrator of Laryngology and Rhinology, 1133 Fourteenth Street N. W.
- WALLACE JOHNSON, PH. B., M. D.,  
Demonstrator of Pathology and Bacteriology, 1414 U Street N. W.
- JOHN D. THOMAS, A. B., M. D.,  
Assistant to Professor of Theory and Practice of Medicine and Diseases of Children,  
1603 Nineteenth Street.
- SYLVESTER D. JUDD, B. S., PH. D.,  
Instructor in Embryology, 1321 Thirty-third Street.
- J. J. RICHARDSON, M. D.,  
Demonstrator of Laryngology and Rhinology, 1101 Fourteenth Street.
- WM. GERRY MORGAN, M. D.,  
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Children, 1417 Rhode Island Avenue.
- M. D'ARCY MAGEE, M. D.,  
Demonstrator of Surgery, 1355 Corcoran Street.
- J. A. CLARK, M. D.,  
Assistant to Professor of Histology, 1727 De Sales Street.
- C. E. YOUNT, M. D.,  
Assistant Professor of Chemistry and Instructor in Urinalysis, Columbia Hospital.

JOSEPH S. WALL, M. D.,  
Assistant to Professor of General Pathology and Lecturer on Physics  
1228 Fourteenth Street N. W.

R. S. BLACKBURN, M. D.,  
Assistant to Professor of Histology, 1623 Massachusetts Avenue.

H. R. HUMMER, M. D.,  
Assistant to Professor of Anatomy, 1227 K Street S. E.

A. L. HOWARD, M. D.,  
Assistant Demonstrator of Anatomy, 1126 Ninth Street.

L. A. WALKER, M. D.,  
Assistant Demonstrator of Anatomy and Prosector, 223 E Street N. W.

W. C. GWYNN, M. D.,  
Assistant Demonstrator of Anatomy, 1 Iowa Circle.

C. C. MARBURY, M. D.,  
Assistant Demonstrator of Anatomy, 1121 Fourteenth Street.

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Assistant to Professor of General Pathology and Bacteriology, 3311 N Street N. W.

NELSON GAPEN, M. D.,  
Assistant Demonstrator of Anatomy, 322 Indiana Avenue.

WILFRED M. BARTON, M. D.,  
Assistant to Professor of Materia Medica and Therapeutics and Lecturer on Pharmacy, 1309 H Street.

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GEORGE M. KOBER, M. D.,

Dean and Treasurer,  
1600 T Street.

D. CRAFTON,

Curator,  
920 H Street. Telephone No. 632.

## GEORGETOWN UNIVERSITY HOSPITAL STAFF.

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### DEPARTMENT OF MEDICINE.

Professor SAMUEL S. ADAMS, M. D., Chief.  
Professor J. DUDLEY MORGAN, M. D., Associate.  
Professor EDWIN B. BEHREND, M. D., Assistant.  
JOHN D. THOMAS, M. D., Assistant.

### DEPARTMENT OF SURGERY.

Professor GEORGE T. VAUGHAN, M. D., Chief.  
Professor HARRISON CROOK, M. D., Associate.  
M. D'ARCY MAGEE, M. D., Assistant.  
WILLIAM C. GWYNN, M. D., Assistant.  
JOHN A. CLARK, M. D., Assistant.

### DEPARTMENT OF GYNECOLOGY AND ABDOMINAL SURGERY.

Professor JOSEPH TABER JOHNSON, M. D., Chief.  
W. SINCLAIR BOWEN, M. D., Associate.  
PRESLEY C. HUNT, M. D., Assistant.  
LOREN B. T. JOHNSON, M. D., Assistant.

### DEPARTMENT OF OBSTETRICS.

Professor JOHN F. MORAN, M. D., Chief.

### DEPARTMENT OF OPHTHALMOLOGY AND OTOLOGY.

Professor SWAN M. BURNETT, M. D., Chief.  
C. R. DUFOUR, M. D., Phar. D., Assistant.

### DEPARTMENT OF LARYNGOLOGY AND RHINOLOGY.

Professor T. MORRIS MURRAY, M. D., Chief.  
WALTER A. WELLS, M. D., Assistant.

DEPARTMENT OF DERMATOLOGY.

Professor J. C. McGUIRE, M. D.

RESIDENT PHYSICIANS.

RALPH B. DURFEE, M. D.      FRANCIS S. MACHEN, M. D.

EXTERNES.

W. P. KEENE, M. D.      LEON E. STORY, M. D.

APOTHECARY.

A. J. McINTYRE.

SISTER SUPERIOR.

SISTER MARY PAULINE, O. S. F.

## Announcement for 1901-1902.

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The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Saturday, September 28, 1901, and end Saturday, May 31, 1902.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction so that more time may be given to practical work in laboratories and hospitals. The instruction will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted as a part of the curriculum, makes instruction more directly personal and adapted to the special needs of the individual, and prepares our graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy and Marine Hospital Service. A number of our students have successfully passed these examinations.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the

technical skill needed in these important methods of modern medical research.

The laboratory courses may be taken independently of the lectures.

Congress during its last session appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as Assistants during the vacation months in the scientific Laboratories of the Department of Agriculture.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student, that are unrivaled in America and are equal to those in most European capitals. These collections are for the most part freely open to the public, or can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study. In most cases the collections are made available for education and research by act of Congress. The following may be mentioned :

#### LIBRARIES.

The Library of Congress.....	700,000 vols.
The Library of the Surgeon-General's Office...	110,000 "
The Library of the United States National Museum .....	16,000 "
The Library of the Museum of Hygiene.....	10,500 "
The Library of the Bureau of Ethnology.....	5,000 "
The Library of the Bureau of Education.....	30,000 "
The Library of the Department of Agriculture.	25,000 "

#### MUSEUMS, ETC.

The Army Medical Museum.

The Museum of Hygiene.

The United States National Museum.

The Museum of the Agricultural Department.  
The Botanical Garden.  
The United States National Zoological Park.

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### Requisites for Admission.

In accordance with the regulations of the Association of American Medical Colleges, a preliminary examination is required as a condition for admission. It will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, normal or high school, or State Examining Board.

The examination shall comprise the following subjects :

(a) A thorough knowledge of English grammar, composition and rhetoric.

(b) Mathematics, including higher arithmetic, algebra through quadratics, and plane geometry.

(c) Latin, the equivalent of one year's study in a good high school, covering at least one book of Caesar's commentaries or an equivalent thereof.

(d) Elementary physics.

(e) United States history.

Students conditioned in any of these branches will be allowed one year's time to meet the requirements.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that



they are qualified to intelligently avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Saturday, September 28, and Monday, September 30, 1901, at 2 P. M.

## **Method of Instruction.**

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction :

### **ANATOMY.**

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject by dissection, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held every month. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

### **OSTEOLOGY.**

DR. EMORY W. REISINGER,  
Assistant to the Professor of Anatomy.

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an

actual specimen. For the study of the skeleton it is very much like what the study of the softer parts is in the dissecting room, and is an indispensable preliminary to that work.

## PRACTICAL ANATOMY.

DR. EMORY W. REISINGER,

Demonstrator.

The new dissecting room is spacious and well provided with the proper appliances for the assistance of students. Dissecting will commence October 15th, and continue until the following March. The room will be open daily for students, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body. The Demonstrator and Assistants will have general supervision and direction over all students while in the dissecting room.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

The Demonstrator will examine the students from time to time during the progress of their dissections, and if he finds that they have not properly displayed the structures, or have no accurate knowledge of the parts dissected, he will require a new dissection of the same region upon another subject. He will certify to the Professor of Anatomy the satisfactory completion of each dissection.

## HISTOLOGY.

PROF. HUGH M. SMITH, M. D.

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to thoroughly cover the subject of animal histology, the human tissues being compared with those of the lower

vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearances.

### EMBRYOLOGY.

SYLVESTER D. JUDD, B. S., PH. D.

This course will consist of about twenty lectures, covering the subject up to organology. It is required of the first class, and is illustrated by numerous charts prepared especially for these lectures.

### PHYSIOLOGY.

PROF. C. H. A. KLEINSCHMIDT, PH. D., M. D.

This course, which will extend over two sessions, comprises didactic lectures and laboratory work upon the functions of the various organs of the body in health and upon physiological chemistry. These lectures are illustrated by demonstrations, diagrams, plates, and models.

### MATERIA MEDICA AND THERAPEUTICS.

PROF. G. LLOYD MAGRUDER, A. M., M. D.,

One of the Consulting Physicians to Providence Hospital, and the Central Dispensary and Emergency Hospital.

Instruction in this Department will extend over the first three years of the medical course.

Students of the second and third year will be instructed in the physiological action and therapeutical use of drugs, and in prescription writing. The instruction will be given by lectures and recitations.

### MATERIA MEDICA.

WILFRED M. BARTON, M. D.

Under this course students of the first year will be taught the appearance and physical properties of the crude drugs and the preparations derived therefrom, illustrated by actual specimens. The elements of pharmacology will also be

taught, including the compounding of medicinal substances and preparations, incompatibilities, weights and measures, doses, etc. Instruction will be both didactic and practical.

### CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes.

This is supplemented by laboratory work, illustrating the subjects previously considered, and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate, between wholesome and unwholesome articles of food and drink.

The various food products, particularly milk, cheese, bread and meats, will receive careful consideration.

The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation.

The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonism is briefly considered, while the evidence of poisoning as furnished by chemical analyses is considered more in detail.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

### THEORY AND PRACTICE OF MEDICINE AND DISEASES OF CHILDREN.

PROF. SAMUEL S. ADAMS, A. M., M. D.,

Attending Physician to Georgetown University and Children's Hospital.

Instruction in this branch will be given by didactic and clinical lectures and reviews.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such a manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by the various clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

### PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.

One of the Attending Surgeons at the Emergency Hospital and Chief Surgeon Georgetown University Hospital.

The course in surgery extends over two years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics which are held at the various hospitals and dispensaries, which afford material in abundance.

The Third Class is instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of all kinds of surgical instruments is also demonstrated on the living subject or on the cadaver.



Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

## SURGICAL PATHOLOGY AND MILITARY SURGERY.

PROF. W. C. BORDEN, M. D., F. R. M. S.,

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital,  
Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

## OBSTETRICS.

PROF. JOHN F. MORAN, A. B., M. D.,

Obstetrician, Georgetown University and Columbia Hospitals.

Obstetrics will be taught didactically, and, as far as practicable, instructions will be given at the bedside. The entire course will be graded, and will consist of classified lectures, comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which he was required to keep records and present written reports of the cases. In future, every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will also be urged.

An operative course on the Budin-Pinard manikin will be given. Instruction will be given in abdominal palpation, in digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of the forceps, version, etc.

### GYNECOLOGY AND ABDOMINAL SURGERY.

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

One of the Consulting Physicians to the Central Dispensary and Emergency Hospital, Consulting Gynecologist to the Woman's Dispensary, Surgeon in Charge of his own Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recitations, and also in small classes at private operations, where manipulations and operative work will be carefully explained and demonstrated.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

Abdominal surgery will receive especial attention.

### OPHTHALMOLOGY AND OTOTOLOGY.

PROF. SWAN M. BURNETT, PH. D., M. D.,

Ophthalmologist and Otolologist to Georgetown University, Providence and Children's Hospitals, and to the Central Dispensary and Emergency Hospital.

These important branches are taught as part of the regular curriculum.

The course begins with lectures on the anatomy of the eye and ear illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and acoustics and the proper methods of examining the eye and ear. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye and ear are wholly clinical, illustrative cases, being taken from Dr. Burnett's extensive service at the Central Dispensary and Emergency Hospital, and at Children's, Providence, and the University Hospitals.



The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than twelve hundred new cases of eye and ear diseases are treated annually at the Central Dispensary alone. Every important operation on the eye is performed in the presence of each section.

Dr. C. R. Dufour, Demonstrator of Ophthalmology and Otology, gives clinical demonstrations twice a week at the Eastern Dispensary.

### SPÉCIAL PATHOLOGY AND MORBID ANATOMY.

PROF. I. W. BLACKBURN, M. D.

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to consideration of tumors and morbid growths in general and in connection with special pathology; to the pathology of mental diseases, and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes. A special feature of the course will be demonstrations of the gross and microscopic morbid anatomy of diseased organs, and the making of post-mortem examinations before the class.

### GENERAL PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, M. D.

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first-half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second-half year is devoted to the study of the anatomical changes in disease, including degeneration, re-

generation, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, fæces, gastric contents, sputum, pathological exudates, etc., with especial reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

### HYGIENE AND STATE MEDICINE.

PROF. GEORGE M. KOBER, M. D.

The course on hygiene will extend over two years and will include lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; alimentation, food, beverages, and condiments, morbid and infected food products; the skin, bath, and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon students in their fourth year.

### PHYSICAL DIAGNOSIS, LARYNGOLOGY, AND RHINOLOGY.

PROF. T. MORRIS MURRAY, M. D.,

Director of the Throat and Chest Clinic Georgetown University Hospital and at the Central Dispensary and Emergency Hospital.

In addition to the didactic lectures on the principles of physical diagnosis and laryngology at the college there will be demonstrations in these branches to the students at Dr.

Murray's very large clinic for diseases of the throat and chest at the Central Dispensary and Emergency Hospital. This latter will be entirely practical. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Murray; thus they will be made familiar with one of the most important branches of medical practice.

### MEDICAL ZOOLOGY.

PROF. CH. WARDELL STILES, A. M., PH. D.,

Zoologist United States Bureau of Animal Industry, Honorary Custodian of the Helminthological Collection, United States National Museum, Correspondant Etranger de l'Academie de Medecine (Paris).

This course comprises a series of lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life-history of the different forms, and the best means of treatment and prevention. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for the course, and exhibitions of specimens. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of fæces, for determining the presence of parasites.

An opportunity to carry on original investigation in Medical Zoology, under the direct supervision of Dr. Stiles, will be offered to graduates or to advanced students who may desire to pay special attention to this branch.

### DERMATOLOGY.

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology, etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by plates.

A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

**MENTAL AND NERVOUS DISEASES.****PROF. A. B. RICHARDSON, M. D.,**

Superintendent of the Government Hospital for the Insane.

This course will consist of twelve clinical lectures at the Government Hospital for the Insane. Members of the Fourth Class only will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity which are usually seen in the practice of the general practitioners in medicine.

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**Clinical Advantages.****GEORGETOWN UNIVERSITY HOSPITAL,***Corner Thirty-fifth and N Streets N. W.*

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city.

This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school.

Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases.

The positions of Resident Physicians and Externes are filled by competitive examination, open to the Graduating Class of each year.

**PROVIDENCE HOSPITAL,***Capitol Hill, corner Second and D Streets S. E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government.

It contains over three hundred beds. The medical and surgical wards are usually well filled with interesting cases.

In the new surgical amphitheatre, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Clinics will be given in this hospital by the following professors of this school, and by other members of the hospital staff:

*Surgical*.—Drs. Bayne, Crook, and Mallan.

*Diseases of the Eye and Ear*.—Dr. Burnett.

*Clinical Medicine*.—Dr. Vincent.

*Gynecological*.—Dr. Cuthbert.

Dr. Magruder is on the Consulting Staff.

An annual fee of \$5, covering all the clinics for the year, is charged by the hospital authorities.

There are competitive examinations for the positions of Resident and Assistant Resident Physicians.

#### CHILDREN'S HOSPITAL,

*W Street, between Twelfth and Thirteenth Streets N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to thoroughly observe and comprehend the cases admitted to its wards.

The out-patient department or dispensary is open every weekday from 2 30 to 4.30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Burnett and Adams will give clinical instruction at this hospital.

Drs. Johnson, Kober, Burnett, and Adams are on the staff of this hospital.

#### CENTRAL DISPENSARY AND EMERGENCY HOSPITAL,

*Fifteenth Street and Ohio Avenue N. W.*

During the last year over 15,000 patients were treated here, and over 500 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician.



As a large proportion of the serious cases of accidents that occur in the city are first brought to the hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The new building just completed offers greatly improved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery.

There are competitive examinations for Resident Physician and two Assistant Resident Physicians.

In this institution, Dr. S. M. Burnett will give clinical lectures upon diseases of the eye and ear, and Dr. Murray upon physical diagnosis, laryngology and diseases of the throat and lungs. Dr. G. T. Vaughan, who is one of the surgeons, will give regular clinics and demonstrations in surgery in all its practical branches. The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of practical bacteriology, pathology and Rontgen ray work in association with surgery and medicine. Dr. Wallace Johnson is in charge of pathology in this laboratory. Clinical lectures are also given by other members of the staff. Doctors Johnson, Magruder and Kober are upon the Consulting Board.

Personal supervision of the training of the student is aimed at to qualify each with a working knowledge of this branch of practice.

#### • GARFIELD MEMORIAL HOSPITAL.

*Florida Avenue and Tenth Street N. W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical.*—Dr. J. D. Morgan.

*Obstetrical and Gynecological.*—Dr. H. D. Fry.

In all of the above Hospitals the positions of Resident and Assistant Resident Physicians are open to competitive examination to graduates of this School.

## Clinical Instructions.

Attendance upon clinical instruction is obligatory for students of the third and fourth years. The following clinics will be held by members of the Faculty:

Dr. Johnson, gynecology and abdominal surgery, Georgetown University Hospital.

Doctor Fry, obstetrics and gynecology.

Doctor Vaughan, surgical, Central Dispensary and Emergency Hospital and Georgetown University Hospital.

Doctor Adams, medical, and diseases of infancy, and childhood, Georgetown University, Children's and Foundling Hospitals.

Doctor Borden, surgical, Washington Barracks.

Doctor Burnett, eye and ear, Central Dispensary, Georgetown University Hospital, and Children's Hospital.

Doctor Murray, throat and chest, Central Dispensary and Georgetown University Hospital.

Doctor Bayne, surgical, Providence Hospital.

Doctor Crook, surgical, Providence Hospital.

Doctor Mallan, surgical, Providence Hospital.

Doctor Cuthbert, gynecological, Providence Hospital.

Doctor Vincent, medical, Providence Hospital.

Doctor Stone will invite in turn senior students to witness gynecological operations.

Doctor McGuire, dermatology, Georgetown University Hospital.

Doctor Moran will invite students to witness obstetrical cases.

Doctor James Dudley Morgan, medical, Garfield Memorial Hospital.

Doctor Richardson, mental and nervous diseases, at Government Hospital for Insane.

Doctor Hickling, medical and surgical, Washington Asylum Hospital.



## Examinations.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, including osteology, histology, and embryology, chemistry, and materia medica.

The *Second Class* upon anatomy, physiology, chemistry, urinalysis, therapeutics, pathology, bacteriology, and toxicology.

The *Third Class* upon physiology, therapeutics, the practice of medicine, surgery, obstetrics, gynecology, pathology, and hygiene and state medicine.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis, ophthalmology and otology, hygiene and state medicine, mental diseases, animal parasites and dermatology.

If deficient in more than two of these branches, he may be required to repeat the yearly course for which the examination has been held.

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

Students of the first year will not be permitted to advance to the second unless their standing shall be satisfactory in three of the principal branches of that year. They must make good their deficiencies of the first year before being admitted to the examinations held at the end of the second year.

Students of the second year will not be permitted to advance to the third unless their standing shall be satisfactory in the branches of the first year and the branches of anatomy, chemistry, physiology, and therapeutics of the second year. All deficiencies must be made up before the student will be admitted to the examinations held at the end of the third year.

Students of the third year will not be permitted to advance to the fourth unless their standing shall be satisfactory in the branches of the second year and in the branches of physiology, therapeutics, practice, pathology, surgery, obstetrics, and gynecology of the third year. All deficiencies must be made up before the student will be admitted to the examinations held at the end of the fourth year.

Students of the fourth year shall not be permitted to graduate unless their standing is satisfactory in the following branches, viz., practice of medicine, surgery, obstetrics, gynecology, ophthalmology, otology, laryngology, and physical diagnosis.

### Requirements for Graduation.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction, delivered in some recognized medical school, the last of which shall have been delivered in this institution. He must have attended at least two courses of practical anatomy, laboratory courses in physiology, chemistry, histology, pathology and bacteriology, and the clinical courses of instruction.

### Fees.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	100 00
Laboratory fee.....	5 00

A fee will be charged for material used in practical anatomy and operative surgery.

#### FEEs FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs .....	\$20 00
Dissection.....	10 00
Practical Chemistry, including chemicals and break- age, per course.....	25 00
Didactic and laboratory course in normal histology, pathology and pathological histology or bacteri- ology, each .....	25 00
Operative Surgery on the cadaver, per course.....	20 00
No extra charge for Demonstrators' fees.	

No graduation fee is required.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examinations without previous registration.

The Society of Alumni of Georgetown University established in 1900 a Medical Scholarship. All nominations of candidates shall be made by members of the Society of Alumni, and shall be confined to deserving young men of limited means, preferably the sons and near relatives of members of the Society. Candidates for these scholarships will be examined whenever there are vacancies.

A student repeating a course for any reason will be charged full fees for that course.

Good board, at \$20 per month and upwards, can be obtained in the immediate vicinity of the college.

For further information apply to

GEORGE M. KOBER, M. D., *Dean*,  
1600 T Street N. W.

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## Dental Department

— OF THE —

# School of Medicine

— OF —

GEORGETOWN UNIVERSITY.

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Arrangements have been completed for the establishment of a modern and strictly first-class Dental Department of the Medical School. The sessions will be held in daytime, and begin October 1st, 1901.

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For terms and further information, apply to  
W. N. COGAN, D. D. S.,  
1746 M Street N. W.

## Graduates.



FRANCIS ASBURY ASHFORD.

FRANK LEE BISCOE.

WILLIAM JOHN CALLAGHAN.

JOHN JOSEPH CONWAY.

FRANCIS JOSEPH DOYLE.

JOHN PATRICK DUNNIGAN, A. B.

JOHN THOMAS FRANCIS DUNN.

JAMES EDWARD GILL.

AUGUSTIN DE YTURBIDE GREEN.

PERCY FRANCIS HOUGHTON.

JOHN FREDERICK KUHN, PHAR. D.

ROMULUS ZACHARIAH LINNEY, JR.

PATRICK MICHAEL LYNCH.

FRANCIS STANISLAUS MACHEN.

DOUGLAS MCINTYRE.

WILLIAM DUNLOP OWENS.

CLARENCE EDWARD SHAW.

LEON ELLERY STORY.

EDWARD MELVILLE TALBOTT.

OTTO FRANCIS WELLENREITER, PHAR. D.

RICHARD AMBROSE WARNER.

## List of Students of Georgetown Medical Department.

ABRAHAM, HORATIO E.....	Texas.
ADAMS, ROY D.....	District of Columbia.
APPERIOUS, SAMUEL H.....	Alabama.
ASHFORD, FRANK A.....	District of Columbia.
ASHFORD, MAHLON.....	District of Columbia.
BACON, ALEXANDER P.....	District of Columbia.
BAYNE, J. BRECKINRIDGE.....	District of Columbia.
BERTH, WILLIAM H.....	Rhode Island.
BISCOE, FRANK L.....	District of Columbia.
BURBANK, CARVL.....	District of Columbia.
CAIN, WILLIAM S.....	New York.
CALLAGHAN, WILLIAM J.....	District of Columbia.
CARNEY, PATRICK J.....	Massachusetts.
CASHMAN, THOMAS FRANCIS.....	Pennsylvania.
CLEARY, D. J.....	Massachusetts.
COLEMAN, DAVIS C., A. B.....	Massachusetts.
CONNOR, JOHN E., A. B.....	Massachusetts.
CONNORS, GEORGE R.....	Massachusetts.
CONLIN, CHARLES F.....	Massachusetts.
CONROY, LUKE R.....	Massachusetts.
CONWAY, JOHN J.....	Rhode Island.
CRANSTON, ROBERT JOSEPH.....	District of Columbia.
CUVILLIER, LOUIS M.....	District of Columbia.
DAVIS, CARL L.....	District of Columbia.
DIGGES, JOHN H.....	Maryland.
DOYLE, FRANCIS J.....	New Jersey.
DUFFEY, ARTHUR F.....	Massachusetts.
DUNN, JOHN T.....	Pennsylvania.
DUNNIGAN, JOHN P.....	Massachusetts.
FLEMING, JOHN F., A. B.....	Massachusetts.
FLYNN, CHARLES B.....	Massachusetts.
GALLIVAN, JAMES F.....	Massachusetts.
GARNETT, ROBERT S.....	Florida.
GASSAWAY, WILLIAM N.....	Maryland.
GILL, JAMES E.....	Illinois.
GILLULY, JOHN F.....	Massachusetts.
GRADY, JAMES A.....	Connecticut.
GREEN, A. DE Y.....	District of Columbia.
GREEN, WILLIAM A.....	North Carolina.

## SCHOOL OF MEDICINE.

PRESIDENT'S OFFICE<sup>31</sup>

GUFFAIN, CHARLES P.	Porto Rico.
HAMILTON, RALPH A.	District of Columbia.
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LOPEZ, JOSE A., A. B.	Porto Rico.
LOWE, THOMAS F., A. B.	Maryland.
LYNCH, PATRICK M.	Massachusetts.
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MCDONNELL, JOHN F., A. B.	Massachusetts.
MCINTYRE, A. J.	Pennsylvania.
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MCQUILLAN, FRANK	Rhode Island.
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O'BRIEN, EDWARD C.	West Virginia.
O'HARA, FRANCIS J.	Massachusetts.
ORISON, ARTHUR L.	District of Columbia.
OWENS, WILLIAM DUNLOP.	District of Columbia.
OWENS, SAMUEL LOGAN	Louisiana.

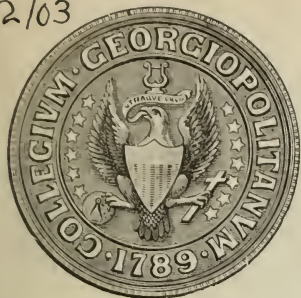


OWENS, EDWARD T.....	Maryland.
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POWELL, WALTER R.....	District of Columbia.
QUIGLEY, FRANCIS L.....	Kansas.
REARDON, JAMES T.....	Massachusetts.
REEVES, I. S. K.....	Virginia.
REGLI, JOSEPH A. S., A. B.....	California.
ROGERS, WILLIAM E., JR.....	Virginia.
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SCHNEIDER, EDWIN C.....	Virginia.
SHARP, DeHAVEN, Phar. D.....	District of Columbia.!
SHAW, CLARENCE E.....	District of Columbia.
SHEA, MICHAEL I.....	Massachusetts.
SHEEHAN, DENNIS J.....	Vermont. -
SHORT, FRANCIS J.....	New York.
SHORT, WILLIAM H.....	New York.
SMART, WILLIAM M.....	District of Columbia.
SMITH, JAMES B.....	Georgia.
SMITH, WILLIAM M., A. B.....	Maryland.
STORY, LEON E.....	District of Columbia.
SWETNAN, CHARLES R. K.....	Virginia.
SUDLER, ODEN R., Phar. D.....	District of Columbia.
SULLIVAN, TIMOTHY J.....	Massachusetts.
SULLIVAN, ALGERON D.....	Massachusetts.
TALBOTT, EDWIN M.....	Virginia.
THOMSON, LEWIS B.....	Maryland.
TOOHEY, THOMAS V.....	Massachusetts.
TORRE, FELIX GARCIA DE LA.....	Porto Rico.
UCKER, CLEMENT S.....	District of Columbia.
WAHLER, JOSEPH P.....	District of Columbia.
WARNER, RICHARD A.....	District of Columbia.
WATSON, JOHN W.....	District of Columbia.
WELCH, THOMAS F.....	Massachusetts.
WELLENREITER, OTTO F., Phar. D.....	Illinois.
WILLSON, PRENTISS.....	District of Columbia.



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1902/03



Georgetown University,  
School of Medicine  
and  
Dental Department,  
Washington, D. C.

UNIVERSITY OF ILLINOIS

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PRESIDENT'S OFFICE.

CIRCULAR OF INFORMATION.

1902-1903

Georgetown University. 1902-03.

## FACULTY.

---

REV. JEROME DAUGHERTY, S. J.

President of Georgetown University.

H. D. FRY, M. D.,

Emeritus Professor of Obstetrics and Clinical Professor of Gynecology,  
1601 Connecticut Avenue.

C. H. A. KLEINSCHMIDT, M. D., PH. D.,

Emeritus Professor of Physiology. 3048 N Street,

JOSEPH TABER JOHNSON, A. M., M. D., PH. D.

Professor of Gynecology and Abdominal Surgery; Vice-President of the Faculty.  
1728 K Street.

GEORGE M. KOBER, M. D.,

Professor of Hygiene; Dean and Treasurer of the Faculty, 1600 T Street.

FRANK BAKER, A. M., M. D., PH. D.,

Professor of Anatomy, 1728 Columbia Road.

G. LLOYD MAGRUDER, A. M., M. D.,

Professor of Materia Medica and Therapeutics, The Farragut, 17th and I Sts.

GEORGE T. VAUGHAN, M. D.,

Professor of Principles and Practice of Surgery, 1718 I Street.

SAMUEL S. ADAMS, A. M., M. D.,

Professor of Theory and Practice of Medicine and Diseases of Children, 1 Dupont Circle.

SWAN M. BURNETT, M. D., PH. D.,

Professor of Ophthalmology and Otology, 916 Seventeenth Street.

T. MORRIS MURRAY, M. D.,

Professor of Physical Diagnosis, Laryngology and Rhinology, 730 Seventeenth Street.

JOHN D. HIRD, A. M.,

Professor of Chemistry and Toxicology, 305 T Street N. E

JOHN F. MORAN, A. B., M. D.,

Professor of Obstetrics, 2426 Pennsylvania Avenue.

MURRAY GALT MOTTER, B. S., A. M., M. D.,

Professor of Physiology, Head of Thirtieth Street.

W. C. BORDEN, M. D., U. S. A.,

Professor of Surgical Pathology and Military Surgery, Washington Barracks.

I. W. BLACKBURN, M. D.,

Professor of Morbid Anatomy, St. Elizabeth's Hospital.

CH. WARDELL STILES, A. M., PH. D.,

Professor of Medical Zoology, 1362 B Street S. W.

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Professor of Dermatology, 818 Seventeenth Street.

EDWIN B. BEHREND, A. B., M. D.,

Professor of Pathology and Bacteriology, 1214 K Street.

W. C. WOODWARD, M. D., LL. M.,

Professor of State Medicine, 508 I Street

## JOHN W. BAYNE, M. D.,

Professor of Clinical Surgery, 1149 Connecticut Ave.

## HARRISON CROOK, M. D.,

Professor of Clinical Surgery, Fifteenth and L Streets.

## M. F. CUTHBERT, M. D.,

Professor of Clinical Medicine, 1462 Rhode Island Avenue.

## I. S. STONE, M. D.,

Professor of Clinical Gynecology, 1449 Rhode Island Avenue.

## THOMAS N. VINCENT, A. M., M. D.,

Professor of Clinical Medicine, 1221 N Street

## J. DUDLEY MORGAN, A. M., M. D.,

Professor of Clinical Medicine 919 Fifteenth Street.

## A. B. RICHARDSON, M. D.,

Clinical Professor of Mental and Nervous Diseases, Government Hospital for the Insane.

## THOMAS F. MALLAN, M. D.,

Professor of Clinical Surgery, 27 B Street S. E.

## D. PERCY HICKLING, M. D.,

Professor of Clinical Surgery, Lecturer on Nervous Diseases and Electro-Therapeutics.  
221 Third Street N. W.

## LLEWELLYN ELIOT, A. M., M. D.,

Professor of Clinical Medicine. 1106 P Street N.W.

## C. R. DUFOUR, PHAR. D., M. D.,

Instructor in Ophthalmology and Otology, 1343 L Street

## W. SINCLAIR BOWEN, M. D.,

Assistant to Professor of Gynecology and Abdominal Surgery, 1228 Sixteenth Street

## EMORY W. REISINGER, M. D.,

Demonstrator of Anatomy and Instructor in Osteology. 1209 Thirteenth Street.

## WALTER A. WELLS, M. D.,

Demonstrator of Laryngology and Rhinology, 1133 Fourteenth Street N. W.

## WALLACE JOHNSON, PH. B., M. D.,

Demonstrator of Pathology and Bacteriology, 1414 U Street N. W.

## JOHN D. THOMAS, A. B., M. D.,

Assistant to Professor of Theory and Practice of Medicine and Diseases of Children.  
1603 Nineteenth Street.

## SYLVESTER D. JUDD, B. S., PH. D.,

Instructor in Embryology, 1321 Thirty-third Street.

## J. J. RICHARDSON, M. D.,

Demonstrator of Laryngology and Rhinology, 1101 Fourteenth Street.

## WM. GERRY MORGAN, M. D.,

Assistant to Professor of Theory and Practice of Medicine and of Diseases of Children  
1417 Rhode Island Avenue.

## M. D'ARCY MAGEE, M. D.,

Demonstrator of Surgery and Lecturer on Minor Surgery. 1335 Corcoran Street.

## J. A. CLARK, M. D.,

Instructor in Histology. 1727 De Sales St.

## JOSEPH S. WALL, M. D.,

Assistant to Professor of General Pathology, 1228 Fourteenth Street N.W.

## JOHN A. O'DONOGHUE, A. M., M. D.,

Assistant to Professor of General Pathology and Bacteriology, 3311 N Street N. W.

## WILFRED M. BARTON, M. D.,

Assistant to Professor of Materia Medica and Therapeutics and Lecturer on Pharmacy.  
1309 H Street.

- TRUMAN ABBE, A. B., M. D.,  
Instructor in Physics and Assistant to the Professor of Physiology 2017 I Street
- R. S. BLACKBURN, M. D.,  
Assistant Instructor in Histology, 1623 Massachusetts Avenue
- H. R. HUMMER, M. D.,  
Assistant to Professor of Anatomy 623 Pennsylvania Avenue S. E
- LOREN B. T. JOHNSON, M. D.  
Demonstrator of Gynecology, 924 Seventeenth Street
- FRANCIS S. MACHEN, M. D.,  
Demonstrator of Obstetrics,
- WALTER McM. LUTTRELL, M. D.,  
Prosector of Anatomy and Assistant Demonstrator. 926 New York Avenue
- EDWIN M. HASBROUCK, M. D.,  
Prosector of Anatomy and Assistant Demonstrator. 2422 Fourteenth Street N. W
- W. C. GWYNN, M. D.,  
Assistant Demonstrator of Anatomy, 3267 N Street
- C. C. MARBURY, M. D.,  
Assistant Demonstrator of Anatomy, 1121 Fourteenth Street
- RALPH B. DURFEE, M. D.,  
Assistant Demonstrator of Anatomy, 1814 K Street
- JAMES E. GILL, M. D.,  
W. P. REEVES, M. D.,  
L. E. STORY, M. D.,  
Assistant Demonstrators in Medical Chemistry,

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D. CRAFTON,

Curator,

920 H Street.

Telephone Main No. 632.

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## CALENDAR.

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1902.

SEPT. 29. 30.—Examinations for admission and re-examinations.

2 P. M.

OCT. 1st.—Lectures begin at 1.30 P. M.

NOV. 27, 28, and 29.—Thanksgiving holidays.

DEC. 20.—Christmas recess begins at 5 P. M.

1903.

JAN. 2.—Lectures resumed.

FEB. 22.—Legal holiday.

APR. 8.—Easter recess begins at 5 P. M.

APR. 14.—Lectures resumed.

MAY 9.—Lecture courses completed.

MAY 11.—Examinations begin.

MAY 28.—Commencement.

## GEORGETOWN UNIVERSITY HOSPITAL STAFF.

## DEPARTMENT OF MEDICINE.

Professor SAMUEL S. ADAMS, M. D., Chief.  
Professor J. DUDLEY MORGAN, M. D., Associate.  
Professor EDWIN B. BEHREND, A. B., M. D., Assistant.  
JOHN D. THOMAS, M. D., Assistant.

## DEPARTMENT OF SURGERY,

Professor GEORGE T. VAUGHAN, M. D., Chief.  
Professor HARRISON CROOK, M. D., Associate.  
M. D'ARCY MAGEE, M. D., Assistant.  
WILLIAM C. GWYNN, M. D., Assistant.  
JOHN A. CLARK, M. D., Assistant.  
JESSE RAMSBURGH, M. D., Oral Surgeon, Dental Department.

DEPARTMENT OF GYNECOLOGY AND ABDOMINAL  
SURGERY.

Professor JOSEPH TABER JOHNSON, M. D., Chief.  
W. SINCLAIR BOWEN, M. D., Associate.  
PRESLEY C. HUNT, M. D., Assistant.  
LOREN B. T. JOHNSON, M. D., Assistant.

## DEPARTMENT OF OBSTETRICS.

Professor JOHN F. MORAN, M. D., Chief.  
FRANCIS S. MACHEN, M. D., Assistant.

## DEPARTMENT OF OPHTHALMOLOGY AND OTOTOLOGY.

Professor SWAN M. BURNETT, M. D., Chief.  
C. R. DUFOUR, M. D., Phar. D., Assistant.

## DEPARTMENT OF LARYNGOLOGY AND RHINOLOGY.

Professor T. MORRIS MURRAY, M. D., Chief.  
WALTER A. WELLS, M. D., Assistant.

## DEPARTMENT OF DERMATOLOGY.

Professor J. C. MCGUIRE, M. D.,

## RESIDENT PHYSICIANS.

FRANCIS S. MACHEN, M. D.  
THOMAS F. LOWE, A. B., M. D.

## EXTERNES.

LEON E. STORY, M. D.  
FRANK H. McKEON, M. D.



## ANNOUNCEMENT FOR 1902-1903.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Monday, September 29, 1902, and end Saturday, May 31, 1903.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction so that more time may be given to practical work in laboratories and hospitals. The instruction will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual, and prepares graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy and Marine Hospital Service. Of 20 applicants for the Army and Marine Hospital Service, since 1898, 19 passed and only one failed.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

Congress during its last session appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as Assistants during the vacation months in these Laboratories.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student, that are unrivaled in America and are equal to those in most European capitals. These collections are for



the most part freely open to the public, or can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

## LIBRARIES.

The Library of Congress . . . . .	700,000 vols.
The Library of the Surgeon-General's Office . . .	140,539 "
The Library of the National Museum . . . . .	16,000 "
The Library of the Museum of Hygiene . . . . .	10,500 "
The Library of the Bureau of Ethnology . . . . .	5,000 "
The Library of the Bureau of Education . . . . .	30,000 "
The Library of the Department of Agriculture .	25,000 "

## MUSEUMS, ETC.

The Army Medical Museum.  
 The Museum of Hygiene.  
 The United States National Museum.  
 The Museum of the Agricultural Department.  
 The Botanical Garden.  
 The United States National Zoological Park.

## REQUISITES FOR ADMISSION.

In accordance with the regulations of the Association of American Medical Colleges, a preliminary examination is required as a condition for admission. It may be waived if an applicant can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, normal or high school, or State Examining Board.

The examination shall comprise the following subjects:

(a) A thorough knowledge of English grammar, composition and rhetoric. (b) Mathematics, including higher arithmetic, algebra through quadratics. (c) Latin, the equivalent of one year's study in a good high school, covering at least one book of Caesar's Commentaries or an equivalent thereof. (d) Elementary physics. (e) United States history.

Students conditioned in any of these branches will be allowed one year's time to meet the requirements.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that they are qualified to intelligently avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Monday, September 29, and Tuesday, September 30, 1902, at 2 p. m.

### METHOD OF INSTRUCTION.

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and by instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction:

### ANATOMY.

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

### OSTEOLOGY.

EMORY W. REISINGER, M. D.,

Assistant to the Professor of Anatomy

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like what the study of the softer parts is in the dissecting room, and is an indispensable preliminary to that work.

### PRACTICAL ANATOMY.

EMORY W. REISINGER, M. D.,

Demonstrator.

The dissecting room will be open daily for students, after October 15th, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

**HISTOLOGY.****J. A. CLARK, M. D.**

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to thoroughly cover the subject of animal histology, the human tissues being compared with those of the lower vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearances.

**EMBRYOLOGY.****SYLVESTER D. JUDD, B. S., PH. D.**

This course will consist of lectures and laboratory work. It will begin with spermatogenesis and oogenesis, and then taking up the development after fertilization will proceed to the formation of the rudiment of the embryo, and conclude with a consideration of organology.

**PHYSIOLOGY.****PROFESSOR MURRAY GALT MOTTER, B. S., A. M., M. D.**

This course will consist of lectures upon General and Special Physiology, together with recitations, frequent examinations, and, in so far as possible, practical demonstrations.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

**MATERIA MEDICA AND THERAPEUTICS.****PROF. G. LLOYD MAGRUDER, A. M., M. D.,**

One of the Consulting Physicians to Providence Hospital, and the Central Dispensary and Emergency Hospital.

Instruction in this Department will extend over the first three years of the medical course.

Students of the second and third year will be instructed in the physiological action and therapeutical use of drugs, and in prescription writing.

**MATERIA MEDICA.****WILFRED M. BARTON, M. D.**

Under this course students of the first year will be taught the appearance and physical properties of the crude drugs and the preparations derived therefrom, illustrated by actual specimens. The elements of pharmacology will also be taught, including the compounding of medicinal substances and preparations, incompatibilities, weights and measures, doses, etc.

**CHEMISTRY AND TOXICOLOGY.**

PROF. JOHN D. HIRD, A. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered, and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate, between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonism is briefly considered, while the evidence of poisoning as furnished by chemical analysis is considered more in detail.

**PHYSICS.**

TRUMAN ABBE, A. B., M. D.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

**GENERAL PATHOLOGY AND BACTERIOLOGY.**

PROF. EDWIN B. BEHREND, A. B., M. D.

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close



relation with the laboratory exercises. During the first-half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second-half year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, feces, gastric contents, sputum, pathological exudates, etc., with especial reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

### **SPECIAL PATHOLOGY AND MORBID ANATOMY.**

PROF. I. W. BLACKBURN, M. D.

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to consideration of tumors and morbid growths in general and in connection with special pathology to the pathology of mental diseases, and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes.

### **SURGICAL PATHOLOGY AND MILITARY SURGERY.**

PROF. W. C. BORDEN, M. D., F. R. M. S.,

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

### **THEORY AND PRACTICE OF MEDICINE AND DISEASES OF CHILDREN.**

PROF. SAMUEL S. ADAMS, A. M., M. D.,

Attending Physician to Georgetown University and Children's Hospitals.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such a manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by the various

clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

### PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.

One of the Attending Surgeons at the Emergency Hospital and Chief Surgeon Georgetown University Hospital.

This course in surgery extends over two years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics which are held at the various hospitals and dispensaries, which afford material in abundance.

The Third Class is instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of all kinds of surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital classic and modern, is done by the student under the direction of the professor and his assistants.

### OBSTETRICS.

PROF. JOHN F. MORAN, A. B., M. D.,

Obstetrician, Georgetown University and Columbia Hospitals.

Obstetrics will be taught didactically, and, as far as practicable, instruction will be given at the bedside. The entire course will be graded, and will consist of classified lectures, comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which he was required to keep records and present written reports. In future, every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will also be urged.

An operative course on the Budin-Pinard manikin will be given. Instruction will be given in abdominal palpation, in digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of the forceps, version, etc.



**GYNECOLOGY AND ABDOMINAL SURGERY.**

**PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,**  
 One of the Consulting Physicians to the Central Dispensary and Emergency Hospital.  
 Consulting Gynecologist to the Woman's Dispensary, Surgeon in Charge of his own  
 Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown  
 University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recitations, and also in small classes at private operations, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery will receive especial attention.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

**OPHTHALMOLOGY AND OTOTOLOGY.**

**PROF. SWAN M. BURNETT, PH. D., M. D.,**  
 Ophthalmologist and Otolgologist to Georgetown University, Providence and Children's  
 Hospitals, and to the Central Dispensary and Emergency Hospital.

The course begins with lectures on the anatomy of the eye and ear illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and acoustics and the proper methods of examining the eye and ear. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye and ear are wholly clinical, illustrative cases, being taken from Dr. Burnett's extensive service at the Central Dispensary and Emergency Hospital, and at Children's, Providence, and the University Hospitals. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than twelve hundred new cases of eye and ear diseases are treated annually at the Central Dispensary alone. Every important operation on the eye is performed in the presence of each section.

Dr. C. R. Dufour, Demonstrator of Ophthalmology and Otology, gives clinical demonstrations twice a week at the Eastern Dispensary and University Hospital.

**PHYSICAL DIAGNOSIS, LARYNGOLOGY, AND RHINOLOGY.**

**PROF. T. MORRIS MURRAY, M. D.,**  
 Director of the Throat and Chest Clinic Georgetown University Hospital and at the  
 Central Dispensary and Emergency Hospital.

In addition to the didactic lectures on the principles of physical diagnosis and laryngology at the college there will be demonstrations in these branches to the students at Dr. Murray's very large clinic for diseases of the throat and chest at the Central Dispensary and Emergency Hospital. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Murray; thus they will be made familiar with one of the most important branches of medical practice.

**HYGIENE.**

PROF. GEORGE M. KOBER, M. D.

The course on hygiene will extend over two years and will include lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages, and condiments, morbid and infected food products; the skin, bath, and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

**STATE MEDICINE.**

PROF. W. C. WOODWARD, M. D., LL. M.

Health Officer District of Columbia.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon students in their fourth year.

**MEDICAL ZOOLOGY.**

PROF. CH. WARDELL STILES, A. M., PH. D.,

Zoologist United States Bureau of Animal Industry, Honorary Custodian of the Helminthological Collection, United States National Museum, Correspondant Etranger de l'Academie de Medecine (Paris).

This course comprises a series of lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life-history of the different forms, and the best means of treatment and prevention. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for the course, and exhibitions of specimens. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of feces, for determining the presence of parasites. An opportunity to carry on original investigation in Medical Zoology, under the direct supervision of Dr. Stiles, will be offered to graduates or to advanced students who may desire to pay special attention to this branch.

**DERMATOLOGY.**

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology, etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by plates. A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

**MENTAL AND NERVOUS DISEASES.**

PROF. A. B. RICHARDSON, M. D.,

Superintendent of the Government Hospital for the Insane.

This course will consist of twelve clinical lectures at the Government Hospital for the Insane. Members of the Fourth Class only will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity which are usually seen in the practice of the general practitioners in medicine.

**DISEASES OF THE NERVOUS SYSTEM AND ELECTROTHERAPEUTICS.**

PROF. D. PERCY HICKLING, M. D.,

Visiting Physician in charge Washington Asylum Hospital

This course will embrace those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course on Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures will be amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

**CLINICAL INSTRUCTION AND ADVANTAGES.**

GEORGETOWN UNIVERSITY HOSPITAL.

*Corner Thirty-fifth and N Streets N. W.*

Attendance upon clinical instruction is obligatory for students of the third and fourth years.

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics will be given by the following professors of this school and by other members of the Hospital and Dispensary staff.

*Surgical.*—Dr. Vaughan.

*Medical.*—Dr. Adams.

*Gynecological.*—Dr. Johnson.

*Diseases of the Eye and Ear.*—Drs. Burnett and Dufour.

*Diseases of the Throat, Chest and Nose.*—Dr. Murray.

*Dermatology.*—Dr. McGuire.

**PROVIDENCE HOSPITAL,**

*Capitol Hill, corner Second and D Streets S. E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government. It contains over three hundred beds. The medical and surgical wards are usually well filled with interesting cases. In the new surgical amphitheatre, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Regular Clinics are given by the following Professors.

*Surgical.*—Drs. Bayne, Crook, and Mallan.

*Diseases of the Eye and Ear.*—Dr. Burnett.

*Clinical Medicine.*—Dr. Vincent.

*Gynecological.*—Dr. Cuthbert.

Drs. Magruder and Kober are on the Consulting Staff.

An annual fee of \$5, covering all the clinics for the year, is charged by the hospital authorities.

**CHILDREN'S HOSPITAL,**

*W Street, between Twelfth and Thirteenth Streets N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to thoroughly observe and comprehend the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2:30 to 4:30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Burnett and Adams who are on the Staff will give clinical instruction at this hospital. Drs. Johnson and Kober are on the Consulting Staff.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL,**

*Fifteenth Street and Ohio Avenue N. W.*

During the last year over 15,000 patients were treated here, and over 1200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As a large proportion of the serious cases of accidents that occur in the city are first brought to the hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The new building just completed offers greatly improved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery.

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of



practical bacteriology, pathology and Röntgen ray work in association with surgery and medicine. Dr. Wallace Johnson is in charge of pathology in this laboratory. Doctors Johnson, Magruder and Kober are on the Consulting Board.

Regular Clinics are given by the following Professors of this school and other members of the staff.

*Surgical*.—Dr. Vaughan.

*Diseases of the Ear and Eye*.—Dr. Burnett.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose*.—Dr. Murray.

### GARFIELD MEMORIAL HOSPITAL,

*Florida Avenue and Tenth Street N. W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical*.—Dr. J. D. Morgan.

*Obstetrical and Gynecological*.—Dr. H. D. Fry.

In all of the above Hospitals the positions of Resident and Assistant Resident Physician are open to competitive examination to graduates of this School.

In addition to the foregoing, clinics will be given by

Dr. A. B. Richardson; *Mental and Nervous Diseases* at Government Hospital for Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Dr. Jno. F. Moran *Obstetrical*, Columbia Hospital.

Dr. Wm. C. Borden, *Surgical*, U. S. General Hospital, Washington Barracks.

Dr. D. Percy Hickling, *Medical and Surgical*, Washington Asylum Hospital.

Dr. Llewellyn Eliot, *Medical*.

### EXAMINATIONS.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics and materia medica.

The *Second Class* upon anatomy, physiology, chemistry, urinalysis, therapeutics, bacteriology, and toxicology.

The *Third Class* upon physiology, therapeutics, the practice of medicine, surgery, obstetrics, gynecology, general pathology, special pathology and morbid anatomy, surgical pathology, medical zoology and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis, ophthalmology and otology, hygiene, state medicine, mental diseases, medical zoology, dermatology, and electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session.

Students of the first year will not be permitted to advance to the second unless all deficiencies in their entrance examination shall be made up and unless their standing shall be satisfactory in five of the branches of that year. They must make good all their deficiencies of the first year before being admitted to the examinations held at the end of the second year.

Students of the second year will not be permitted to advance to the third unless their standing shall be satisfactory in the branches of the *first year* and the branches of anatomy, chemistry, physiology, and therapeutics of the second year. All deficiencies must be made up before the student will be admitted to the examinations held at the end of the third year.

Students of the third year will not be permitted to advance to the fourth unless their standing shall be satisfactory in the branches of the *second year* and in the branches of physiology, therapeutics, practice, pathology, surgery, obstetrics, gynecology, and hygiene of the third year. All deficiencies must be made up before the student will be admitted to the examinations held at the end of the fourth year.

Students of the fourth year will not be permitted to graduate unless their standing is satisfactory in the following branches, viz., practice of medicine, surgery, obstetrics, gynecology, ophthalmology, otology, laryngology and physical diagnosis, hygiene and state medicine.

Students failing to comply with the foregoing requirements will have to repeat the yearly course for which the examination has been held.

#### REQUIREMENTS FOR GRADUATION.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction, delivered in some recognized medical school, the last of which shall have been delivered in this institution. He must have attended at least two courses of practical anatomy, laboratory courses in physiology, chemistry, histology, pathology and bacteriology, and the clinical courses of instruction.

#### FEEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year .....	100 00
Laboratory fee .....	5 00

A fee will be charged for material used in practical anatomy and operative surgery.



## FEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs . . . . .	\$20 00
Dissection . . . . .	10 00
Practical Chemistry, including chemicals . . . . .	25 00
Didactic and laboratory course in histology, pathology or bacteriology, each . . . . .	25 00
Operative Surgery on the cadaver, per course . . . . .	20 00
No graduation fee is required.	

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examinations without previous registration.

The Society of Alumni of Georgetown University established in 1900 a Medical Scholarship. All nominations of candidates shall be made by members of the Society of Alumni, and shall be confined to deserving young men of limited means, preferably the sons and near relatives of members of the Society. Candidates for these scholarships will be examined whenever there are vacancies.

A Student repeating a course for any reason will be charged full fees for that course.

Good board, at \$20 per month and upwards, can be obtained in the immediate vicinity of the college.

For further information apply to

GEORGE M. KOBER, M. D., *Dean*.

920 H Street N. W.

## DENTAL DEPARTMENT.

### FACULTY.

REV. JEROME DAUGHERTY, S. J.,

President of Georgetown University.

AUGUST WILSON SWEENEY, D. D.

Professor of Operative Dentistry.

WILLIAM N. COGAN, D. D. S.,

Dean of the Faculty, Professor of Dental Technics and Orthodontia.

GEORGE M. KOBER, M. D.,

Treasurer of the Faculty.

SHELDON G. DAVIS, D. D. S.,

Professor of Prosthetic Dentistry.

F. H. SHULTZ, D. D. S.,

Professor of Dental Pathology and Histology.

JESSE RAMSBURGH, A. M., M. D.,

Professor of Oral Surgery.

FRANK BAKER, A. M., M. D., Ph. D.,

Professor of Anatomy.

G. LLOYD MAGRUDER, A. M., M. D.,

Professor of Materia Medica and Therapeutics.

MURRAY GALT MOTTER, B. S., A. M., M. D.,

Professor of Physiology.

JOHN D. HIRD, A. M.,

Professor of Chemistry and Toxicology.

EDWIN B. BEHREND, A. B., M. D.,

Professor of Pathology and Bacteriology.

### SPECIAL LECTURERS.

GEORGE E. HAMILTON, LL. D.,

Dental Jurisprudence.

### ASSISTANTS AND DEMONSTRATORS.

#### MATERIA MEDICA.

WILFRED M. BARTON, M. D.,

Assistant to Chair of Materia Medica and Therapeutics.

#### PRACTICAL ANATOMY.

EDWIN R. HODGE, M. D.,

Assistant to Chair of Anatomy.

#### CHEMISTRY AND METALLURGY.

CHARLES E. FERGUSON, M. D.,

Assistant to Chair of Chemistry.

TRUMAN ABBE, A. B., M. D.,

Instructor in Physics and Assistant to Professor of Physiology.

## PRACTICAL DENTISTRY.

PAUL W. EVANS, A. B., LL. B., D. D. S.,  
Demonstrator.

M. M. DOLMAGE, D. D. S.,  
Demonstrator.

RICHARD E. CRONIN, D. D.  
Demonstrator.

W. D. NARRAMORE, D. D. S.,  
Demonstrator

## CLINICAL STAFF.

DR. E. PARMLEY BROWN, N. Y.,  
Electric Mallet and Porcelain Bridge Work.

DR. T. M. HUNTER, N. C.,  
Gold Contour Filling, &c.

DR. W. ST. GEORGE ELLIOTT, N. Y.,  
Operative Dentistry.

DR. S. L. CLOSE, N. Y.,  
Continuous Gum Work.

DR. V. H. JACKSON, N. Y.,  
Orthodontia, Jackson System.

PROF. ALEXANDER GRAHAM BELL, D. C.,  
Articular Speech-cleft Palate.

DR. J. B. TEN EYCK, D. C.,  
Operative Dentistry.

DR. F. W. SCHLOENDORN, Baltimore, Md.  
Crown and Bridge Work.

### REQUISITES FOR ADMISSION.

The Dental Department conforms to the rules and regulations of the National Association of Dental Faculties as well as to those of the National Association of Dental Examiners. In accordance with these regulations, a preliminary examination, equivalent to a certificate of entrance into the third year of a high school, is required as a condition of admission. This will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course finally passed in recognized institutions.

Those presenting certificates of examination from other reputable dental colleges of equal requirements will be admitted to the respective higher class without further examination.

The preliminary examinations will be held at the college building on the Monday preceding the opening of the session.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless they have been prevented by sickness, which must be vouched for by the certificate of a reputable practicing physician. In that case the date of admission shall not be later than twenty days from the opening day.

Students must continue in attendance until the close of the session in order to obtain credit for a full term.

### METHODS OF INSTRUCTION.

The course of instruction will consist of didactic lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begins with taking impressions of the mouth by the use of the several materials employed for the purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.

THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating-rooms* unequaled in point of lighting, heating, and conveniences. They are furnished with all the requirements of such apartments. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anesthetics, for the extraction of teeth; also

one for taking impressions, articulations, and doing work requiring the use of plaster or wax. The preparation and administration of sulphuric ether and nitrous oxide during the session familiarizes students with these valuable agents.

The infirmary is under the immediate and continuous direction of a corps of competent demonstrators, who are always present to instruct and assist the students in their work. In this department the student is taught the art of operative dentistry. The press of patients is very great, and the opportunities for practice unequalled. The student not only witnesses every kind of dental manipulation as practiced by the experienced, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session, and, indeed, is considered as the only thing essential to becoming a competent dental practitioner.

Each student is expected to provide his own instruments—a list of which may be obtained on application to the demonstrator in charge—with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

The operating-rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each day during the session.

### CURRICULUM.

The instruction embraces a graded course of three years, each course followed by examinations thereon.

Punctual attendance upon the lectures and other exercises is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study:

#### FRESHMAN CLASS.

	Lectures and recitations.	Laboratory.
Anatomy	4 hours.	As assigned.
Osteology.	2 hours for 3 mos.	
Histology.	2 hours.	4 hours.
Materia Medica.	2 hours.	1 hour.
Chemistry.	3 hours for 3½ mos.	3 hours or 3½ mos.
Physics.	1 hour.	
Operative Dentistry.	2 hours.	2 hours.
Prosthetic Dentistry.	2 hours.	2 hours.

#### JUNIOR CLASS.

Anatomy.	4 hours.	As assigned.
Physiology.	3 hours.	
Therapeutics.	3 hours.	
Chemistry and Metallurgy.	3 hours for 32 mos.	
Pathology.	2 hours.	
Bacteriology.		2 hours.
Operative Dentistry.	2 hours.	2 hours for 3 mos
Prosthetic Dentistry.	2 hours.	
Oral Surgery.	1 hour.	
Crown and Bridge Work.		1 hour.
Infirmary Practice.		4 hours.



## SENIOR CLASS.

Physiology.	3 hours.	
Therapeutics.	3 hours.	
Physiological Chemistry.		
Metallurgy.		
Pathology.	2 hours.	4 hours
Operative Dentistry.	2 hours.	
Prosthetic Dentistry.	2 hours.	
Oral Dentistry.	2 hours.	
Crown and Bridge Work.	1 hour.	
Infirmiry Practice.		4 hours.

**COURSE OF STUDY.****ORAL PROSTHESIS.**

PROF. SHELDON G. DAVIS, D. D. S.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: the preparation and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect occlusions, the methods of constructing the different bases used for dentures, and the construction and application of obturators.

Esthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by both didactic and clinical instruction, as well as special demonstrations in difficult cases.

**OPERATIVE DENTISTRY.**

PROF. A. W. SWEENEY, D. D. S.

The lectures from the chair of operative dentistry present the means and methods in use for the preservation of the natural teeth, together with the principles which form the basis of practice, including a description of instruments and their uses, also appliances and materials used in operating; the treatment and preparation of cavities; the methods of filling with various forms of gold and plastic materials. A special feature of instruction from this chair will be practical demonstrations in the mouth, in the infirmary, before the entire class.

**ORAL SURGERY.**

PROF. JESSE RAMSBURGH, A. M., M. D.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch



to the dental curriculum includes thorough instruction in the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis, and antiseptics, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

#### OPERATIVE TECHNICS AND ORTHODONTIA.

PROF. W. N. COGAN, D. D. S.

This course, while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observation, enabling the student to become familiar with the forms and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the human subject.

The treatment of irregularities of the dental arch require great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

#### ANATOMY.

PROF. FRANK BAKER, M. D., PH. D.

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention will be given to the descriptive anatomy of the head, face, neck, and oral cavity.

For Histology and Osteology see page 25.

The demonstrator of practical anatomy will have charge of the class in the dissecting-room, where dissecting material will be supplied in abundance.

#### PHYSIOLOGY.

PROF. MURRAY GALT MOTTER, B. S., A. M., M. D.

One of the features of the progress and development of modern Dentistry is its closer association with the wider field of General Medicine, through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a fuller knowledge of the whole organism, in order that he may, the more intelligently, deal with that part of it which is his more immediate province. To this end, the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while their practical application will be pointed out in lectures, recitations, and, where possible, practical demonstrations.

**MATERIA MEDICA AND THERAPEUTICS.**

PROF. G. LLOYD MAGRUDER, A. M., M. D.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contraindications for their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

**CHEMISTRY AND METALLURGY.**

PROF. JOHN D. HIRD, A. M.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the chemistry of metals and all the materials used in dentistry; also to the vital chemistry of anesthetics. The special chemistry of the mouth, the stomach, and intestinal tube will be fully treated.

**PHYSICS.**

TRUMAN ABBE, A. B., M. D.

A course on the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

**PATHOLOGY AND BACTERIOLOGY.**

PROF. EDWIN B. BEHREND, M. D.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical and embrace full laboratory teaching of the most important subjects of these studies.

**DENTAL HISTOLOGY AND PATHOLOGY.**

PROF. F. H. SHULTZ, D. D. S.

The lectures on Dental Pathology include such portions of general pathology as are of special interest to the dental student.

A detailed consideration is given of all the diseases of the teeth and surrounding parts; normal and abnormal character of oral secretions; dentition and its pathological results. The treatment necessary under each head is minutely detailed.

The lectures on Histology include the comparative anatomy and the development of the teeth, and their component tissues and functions of dental organs.

## GRADUATION.

At the close of the third year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions:

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

The examinations are conducted orally and in writing, and are held at the middle and close of each term thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the *Dental Infirmary* must be exhibited to the professor of Operative Dentistry, and such other specimen work as he may require; also an approved specimen of dental mechanism constructed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

## FEES.

Matriculation (payable but once) . . . . .	\$5 00
Tuition, each year . . . . .	100 00

Charge will be made for breakage in laboratories.

A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1 ensuing. This payment must be made upon registration, and students will not be admitted for re-examinations without previous registration.

For further information apply in person or by letter to

WILLIAM N. COGAN, D. D. S., *Dean*.

*The Sherman, 15th and L Street N. W., Washington, D. C.*

## MATRICULATES, 1901-1902.

ABRAHAMS, HORATIO E. ....	Texas.
ADAMS, ROY D. ....	District of Columbia.
APPERIOUS, SAMUEL H. ....	Alabama.
ASHFORD, MAHLON ....	District of Columbia.
BARTON, F. R. ....	Nova Scotia.
BAYLY, ROZIER C. ....	District of Columbia.
BAYNE, J. BRECKINRIDGE ....	District of Columbia.
BELL, CHARLES ....	District of Columbia.
BERTH, WILLIAM H. ....	Rhode Island.
BOLAND, MARTIN ....	Massachusetts.
BRENNAN, JOHN E. ....	Connecticut.
BRISCOE, JOHN P., JR. ....	Maryland.
BURBANK, CARYL ....	District of Columbia.
CAIN, WILLIAM S. ....	New York.
CARNEY, PATRICK J. ....	Massachusetts.
CASEY, WILLIAM B. ....	Connecticut.
CASHMAN, THOMAS F. ....	Pennsylvania.
CAULK, JOHN R. ....	Maryland.
COLEMAN, DAVID C. ....	Massachusetts.
CONNOR, JOHN E. ....	Massachusetts.
CONLIN, CHARLES F. ....	Massachusetts.
COTTER, TIMOTHY F. ....	Massachusetts.
DAVIS, CARL L. ....	District of Columbia.
DIGGES, JOHN H. ....	Maryland.
DEVLIN, JOSEPH A. ....	New York.
DOEHRING, C. F. W. ....	Pennsylvania.
DOUGHERTY, GERALD ....	Delaware.
ESCH, VICTOR H. ....	District of Columbia.
ESLIN, JAMES T., M. D. (Post Graduate) ....	District of Columbia.
FLANNERY, M. M. ....	Maryland.
FLYNN, CHARLES B. ....	Massachusetts.
FORVE, LOUIS P. ....	Pennsylvania.
GARNETT, ROBERT S. ....	Florida.
GASSAWAY, WILLIAM N. ....	Maryland.
GILLULY, JOHN F. ....	Rhode Island.
GRADY, JAMES A. ....	Connecticut.
GREEN, ROBERT J. ....	District of Columbia.
GREEN, THOMAS A. ....	District of Columbia.
GRIFFITH, CHARLES I. ....	District of Columbia.
GUFFAIN, CHARLES P. ....	Porto Rico.
HAMILTON, RALPH A. ....	District of Columbia.
HAYDEN, DANIEL B. ....	Illinois.
HAYDEN, REYNOLDS ....	District of Columbia.
HEINTZELMAN, J. A., JR. ....	Pennsylvania.
HEMLER, WILLIAM F. ....	Pennsylvania.

HILTON, JAMES F. . . . .	District of Columbia.
HOLLAND, WILLIAM J. . . . .	Massachusetts.
HOPKINS, ALFRED F. . . . .	District of Columbia.
HOUGH, WILLIAM H. . . . .	Virginia.
HOWARD, STANTON W. . . . .	District of Columbia.
HOWE, THEODORE G. . . . .	New York.
HUNTER, EDWIN C. . . . .	District of Columbia.
HUNTER, WILLIAM M. . . . .	North Carolina.
HUSSEY, JOHN P. . . . .	Rhode Island.
JARBOE, J. PARREN . . . . .	Maryland.
JOHNSON, PAUL B. . . . .	District of Columbia.
JONES, GEO. W. . . . .	District of Columbia.
KAVENEY, JOSEPH J. . . . .	Massachusetts.
KEATLEY, HARRY W. . . . .	District of Columbia.
KERNS, FRANK J. . . . .	Massachusetts.
KETT, MICHAEL C. . . . .	Colorado.
KINGSTON, A. T. Y. . . . .	New York.
KIRKWOOD, IRVIN G. . . . .	District of Columbia.
LAGDAMEO, GENARRO . . . . .	Manila, P. I.
LAMB, WILLIAM C. . . . .	Pennsylvania.
LINNEHAN, GEORGE A. . . . .	Massachusetts.
LITTLE, Y. ALLEN . . . . .	Georgia.
LOWE, THOMAS F. . . . .	Maryland.
MCCARTHY, CHARLES H. . . . .	Rhode Island.
MCCORMICK, JOHN J. . . . .	Massachusetts.
MCINTYRE, ANDREW J. . . . .	Pennsylvania.
MCGEARY, THOS. J., JR. . . . .	District of Columbia.
MCKEON, FRANK H. . . . .	Rhode Island.
MCQUILLAN, FRANK . . . . .	Rhode Island.
MACKALL, BRUCE . . . . .	District of Columbia.
MANION, WILLIAM T. . . . .	New York.
MUNDELL, JOSEPH J. . . . .	District of Columbia.
NOEKER, JOSEPH J. . . . .	Michigan.
NORRIS, RASTUS R. . . . .	District of Columbia.
O'HARA, FRANCIS J. . . . .	Massachusetts.
OBEAR, JOSEPH J. . . . .	South Carolina.
OLESON, ROBERT H. . . . .	Minnesota.
OWENS, SAMUEL L. . . . .	Louisiana.
OWENS, EDWARD T. . . . .	Maryland.
PARGON, JOSEPH A. . . . .	New York.
POTTER, JAMES A. . . . .	New York.
POWELL, WALTER R. . . . .	District of Columbia.
POWERS, E. PARNELL . . . . .	Massachusetts.
QUIGLEY, FRANCIS L. . . . .	Kansas.
READY, MICHAEL J. . . . .	District of Columbia.
REGAN, JOHN T. . . . .	Massachusetts.
REEVES, I. S. K., JR. . . . .	Maryland.
REGLI, JOSEPH A. . . . .	California.
ROGERS, WILLIAM E., JR. . . . .	Virginia.
ROMAINE, FRANK W. . . . .	District of Columbia.
RIVERA, PEDRO P. . . . .	Puerto Rico.



ROMADKA, FRANCIS J. . . . .	Wisconsin.
SCHNEIDER, EDWIN C. . . . .	Virginia.
SCHLOTTERER, JOSEPH F. . . . .	Pennsylvania.
SHARP, DE HAVEN. . . . .	District of Columbia.
SHEA, MICHAEL I. . . . .	Massachusetts.
SHEA, WILLIAM H. . . . .	District of Columbia.
SHEEHAN, DENNIS J. . . . .	Vermont.
SHORT, FRANCIS J. . . . .	New York.
SHORT, WILLIAM H. . . . .	New York.
SMART, WILLIAM M. . . . .	District of Columbia.
SMITH, WILLIAM M. . . . .	District of Columbia.
STARR, JOSEPH A. . . . .	New York.
SWETNAM, C. R. K. . . . .	Virginia.
SUDLER, ODEN R. . . . .	District of Columbia.
SULLIVAN, ROBERT Y. . . . .	District of Columbia.
SULLIVAN, TIMOTHY, J. . . . .	Massachusetts.
THOMSON, LEWIS B. . . . .	Maryland.
TOBIN, RICHARD F. . . . .	District of Columbia.
TORRE, GARCIA FELIX DE LA . . . . .	Porto Rico.
WAHLER, JOSEPH P. . . . .	District of Columbia.
WALKER, WILLIAM H. . . . .	New York.
WATSON, JOHN W. . . . .	District of Columbia.
WELCH, THOMAS F. . . . .	Massachusetts.
YELTON, MART A . . . . .	Kentucky.

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#### GRADUATES.

BELL, CHARLES . . . . .	District of Columbia.
CAIN, WILLIAM S. . . . .	New York.
CASHMAN, THOMAS F. . . . .	Pennsylvania.
HEINTZELMAN, JOSEPH A., JR. . . . .	Pennsylvania.
KINGSTON, A. T. Y. . . . .	New York.
LOWE, THOMAS F. . . . .	Maryland.
MCINTYRE, ANDREW J. . . . .	Pennsylvania.
MCKEON, FRANK H. . . . .	Rhode Island.
NOEKER, JOSEPH J., JR. . . . .	Michigan.
REGLI, J. A. S. . . . .	California.
SMART, WILLIAM M. . . . .	District of Columbia.
STARR, JOSEPH A. . . . .	New York.
WALKER, WILLIAM H. . . . .	New York.

## DENTAL DEPARTMENT. PRESIDENT'S OFFICE

BRADLEY, H. A. . . . .	District of Columbia.
CONIGISKY, J. P. . . . .	Illinois.
CONNORS, G. R. . . . .	Rhode Island.
COWLES, A. E. . . . .	Wisconsin.
DORMAN, J. A. . . . .	Iowa.
EDMONSTON, S. S. . . . .	District of Columbia.
FERGEL, JOHN A. . . . .	Ohio.
GARABEDIAN, ARAM . . . . .	District of Columbia.
GOLDEN, JOHN F. . . . .	Pennsylvania.
GOMPERTZ, J. M. . . . .	Connecticut.
HARPER, B. E. . . . .	District of Columbia.
KLEBERG, A. J. . . . .	Texas.
LANE, T. T. . . . .	Pennsylvania.
LATIMER, E. F. . . . .	South Carolina.
McCONNELL, F. S. . . . .	District of Columbia.
McNAMARA, F. B. . . . .	Massachusetts.
McLAUGHLIN, M. F. . . . .	Massachusetts.
MARSHALL, P. J. . . . .	New York.
MULHEARN, R. F. . . . .	Massachusetts.
NEE, J. P. . . . .	Massachusetts.
PIERCE, A. E. . . . .	Virginia.
REGAN, R. B. . . . .	District of Columbia.
REILLY, J. A. . . . .	Massachusetts.
SMITH, J. E. . . . .	District of Columbia.
SULLIVAN, J. D. . . . .	District of Columbia.
WALDO, G. S. . . . .	Illinois.
WEAVER, A. S. . . . .	Ohio.
WHITE, G. H. . . . .	District of Columbia.
YOSHIDA, C. . . . .	Japan.

## GRADUATES.

COWLES, A. E. . . . .	Wisconsin.
FERGELL, J. A. . . . .	Ohio.
HARPER, B. E. . . . .	District of Columbia.
LATIMER, E. F. . . . .	South Carolina.
MARSHALL, P. J. . . . .	New York.
WALDO, G. S. . . . .	Illinois.
WEAVER, A. S. . . . .	Ohio.
WHITE, G. H. . . . .	District of Columbia.
YOSHIDA, C. . . . .	Japan.

## TEXT-BOOKS AND WORKS OF REFERENCE.

The latest editions should always be procured:

*Practice of Medicine*.—Tyson; Osler; Wood and Fitz; Pepper's American Text-Book; Anders; Jakob; Eichhorst.

*Surgery*.—American Text-Book of Surgery; International Text-Book of Surgery; Senn; Wyeth; Dennis' System of Surgery; Park; Zuckerkandl's Operative Surgery; Warren's Surgical Pathology; Morton's Genito-Urinary Diseases.

*Obstetrics*.—Lusk; Parvin; Reynolds; Jewett; Hirst; American Text-Book of Obstetrics.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Anatomy*.—Gray, Morris or Quain; Heath's Dissector.

*Physiology*.—American Text-Book; Kirke; Stewart.

*Chemistry*.—Remsen; Roscoe; Harris' Qualitative Analysis; Purdy Tyson or Whipple on Urine; Witthaus' and Becker's Toxicology. Tanner on Poisons; Mitchell's Dental Chemistry and Metallurgy.

*Materia Medica*.—Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood; Hare; Potter; Gorgas' Dental Medicine

*Medical Jurisprudence*.—Reese; Taylor; Tidy.

*Hygiene*.—Nott and Firth; Parkes; Egbert.

*Physics*.—Gages Elementary and Draper's Medical Physics.

*Ophthalmology*.—Fuchs; de Schweinitz; Jackson; Astigmatism, by Swan M. Burnett; American System of Ophthalmology, Otology, and Laryngology; Suter's Handbook of Optics; Ophthalmic Lenses by C. F. Prentice.

*Otology*.—Politzer; Dench.

*Laryngology and Rhinology*.—Mackenzie; Brown; Bosworth.

*Physical Diagnosis*.—Loomis; Vierordt; Hare; Tyson.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers; Broomell.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Stengel; Burchard's Dental Pathology and Therapeutics; Bödecker's Anatomy and Pathology of the Teeth; Barrett's Oral Pathology and Practice.

*Bacteriology*.—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland; Miller's Micro-organisms of the Human Teeth.

*Mental and Nervous Diseases*.—Blandford on Insanity; Clouston on Mental Diseases; Griesinger on Mental Pathology and Therapeutics; Spitzka on Insanity; Mills' Nervous System; Chapin's Compendium; Potts, Church and Peterson, Gowers.

*Electro-Therapeutics*.—Hadley; Marsey; Bigelow.

*Embryology*.—Heisler; Marshall; Hertwig.

*Parasites*.—Neumann; Braun.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclopaedia; Taylor and Wells.

*Dermatology*.—Hyde; Kaposi; Jackson.

*Operative Dentistry*.—Harris' Principles and Practice of Dentistry. The American System of Dentistry, edited by Litch. Weeks' Manual of Operative Technics.

*Prosthetic Dentistry*.—Richardson's Mechanical Dentistry. Kingsley's Oral Deformities. Warren's Compend of Dental Prosthesis and Metallurgy. Guilford's Orthodontia.

*Oral Surgery*.—Marshall's Surgical Injuries and Diseases of the Face, Mouth, and Jaws, Syllabus by the Professor of this branch.

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1903/04

UNIVERSITY OF ILLINOIS

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PRESIDENT'S OFFICE.



Georgetown University,  
School of Medicine  
and  
Dental Department,  
Washington, D. C.

CIRCULAR OF INFORMATION.

1903-1904.

## FACULTY.

- REV. JEROME DAUGHERTY, S. J.  
*President of Georgetown University.*
- JOSEPH TABER JOHNSON, A. M., M. D., PH. D.  
*Professor of Gynecology and Abdominal Surgery; Vice-President of the Faculty.* 1728 K Street.
- GEORGE M. KOBER, M. D.,  
*Professor of Hygiene; Dean and Treasurer of the Faculty,* 1600 T Street.
- H. D. FRY, M. D.,  
*Emeritus Professor of Obstetrics and Clinical Professor of Gynecology,* 1601 Connecticut Avenue.
- C. H. A. KLEINSCHMIDT, M. D., PH. D.  
*Emeritus Professor of Physiology.* 3048 N Street.
- FRANK BAKER, A. M., M. D., PH. D.  
*Professor of Anatomy.* 1728 Columbia Road.
- G. LLOYD MAGRUDER, A. M., M. D.,  
*Professor of Materia Medica and Therapeutics,* The Farragut, 17th and I Sts.
- GEORGE T. VAUGHAN, M. D.,  
*Professor of Principles and Practice of Surgery,* 1718 I Street.
- SAMUEL S. ADAMS, A. M., M. D.,  
*Professor of Theory and Practice of Medicine and Diseases of Children,* 1 Dupont Circle.
- SWAN M. BURNETT, M. D., PH. D.,  
*Professor of Ophthalmology and Otology,* 916 Seventeenth Street
- T. MORRIS MURRAY, M. D.  
*Professor of Physical Diagnosis, Laryngology and Rhinology.* 730 Seventeenth Street.
- JOHN D. HIRD, A. M.  
*Professor of Chemistry and Toxicology,* 305 T Street N. E.
- JOHN F. MORAN, A. B., M. D.,  
*Professor of Obstetrics,* 2426 Pennsylvania Avenue.
- MURRAY GALT MOTTER, B. S., A. M., M. D.,  
*Professor of Physiology,* 1815 Belmont Avenue.
- W. C. BORDEN, M. D., U. S. A.,  
*Professor of Surgical Pathology and Military Surgery,* Washington Barracks
- I. W. BLACKBURN, M. D.,  
*Professor of Morbid Anatomy,* Government Hospital for the Insane
- CH. WARDELL STILES, A. M., PH. D.,  
*Professor of Medical Zoology,* 1362 B Street S. W.
- J. C. MCGUIRE, A. M., M. D.,  
*Professor of Dermatology,* 818 Seventeenth Street.
- EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology,* 1214 K Street.
- W. C. WOODWARD, M. D., LL. M.,  
*Professor of State Medicine,* 508 I Street.
- JOHN W. BAYNE, M. D.,  
*Professor of Clinical Surgery,* 1149 Connecticut Ave.



SCHOOL OF MEDICINE.

UNIVERSITY OF ILLINOIS

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- I. S. STONE, M. D.,  
*Professor of Clinical Gynecology,* 1449 Rhode Island Avenue.
- THOMAS N. VINCENT, A. M., M. D.  
*Professor of Clinical Medicine,* 1221 N Street.
- J. DUDLEY MORGAN, A. M., M. D.,  
*Professor of Clinical Medicine,* 919 Fifteenth Street.
- A. B. RICHARDSON, M. D.,  
*Clinical Professor of Mental and Nervous Diseases, Government Hospital for the Insane.*
- THOMAS F. MALLAN, M. D.,  
*Professor of Clinical Surgery,* 27 B Street S. E.
- D. PERCY HICKLING, M. D.,  
*Professor of Clinical Surgery, Lecturer on Nervous Diseases and Electro-Therapeutics.* 1304 Rhode Island Avenue.
- LLEWELLYN ELIOT, A. M., M. D.,  
*Professor of Clinical Medicine,* 1106 P Street N. W.
- C. R. DUFOUR, PHAR. D., M. D.,  
*Instructor in Ophthalmology and Otology,* 1343 L Street.
- W. SINCLAIR BOWEN, M. D.  
*Assistant to Professor of Gynecology and Abdominal Surgery,* 1228 Sixteenth Street.
- EMORY W. REISINGER, M. D.,  
*Demonstrator of Anatomy and Instructor in Osteology,* 1209 Thirteenth Street.
- WALTER A. WELLS, M. D.,  
*Demonstrator of Laryngology and Rhinology,* 1133 Fourteenth Street, N. W.
- WALLACE JOHNSON, PH. B., M. D.  
*Demonstrator of Pathology and Bacteriology,* 1414 U Street N. W.
- JOHN D. THOMAS, A. B., M. D.,  
*Assistant to Professor of Theory and Practice of Medicine and Diseases of Children,* 1603 Nineteenth Street N. W.
- J. J. RICHARDSON, M. D.,  
*Demonstrator of Laryngology and Rhinology,* 1101 Fourteenth Street.
- WM. GERRY MORGAN, M. D.,  
*Assistant to Professor of Theory and Practice of Medicine and of Diseases of Children,* 1417 Rhode Island Avenue.
- M. D'ARCY MAGEE, M. D.,  
*Demonstrator of Surgery and Lecturer on Minor Surgery.* 1335 Corcoran Street.
- JOSEPH S. WALL, M. D.,  
*Assistant to Professor of General Pathology,* 1228 Fourteenth Street, N. W.
- JOHN A. O'DONOGHUE, A. M., M. D.,  
*Assistant to Professor of General Pathology and Bacteriology,* 3311 N Street N. W.

WILFRED M. BARTON, M. D.,

*Assistant to Professor of Materia Medica and Therapeutics and Lecturer on Pharmacy,* 1309 H Street.

TRUMAN ABBE, A. B., M. D.

*Instructor in Physics and Assistant to the Professor of Physiology,* 2017 I Street.

R. S. BLACKBURN, M. D.,

*Instructor in Histology,* 2026 P Street, N. W.

LOREN B. T. JOHNSON, M. D.,

*Demonstrator of Gynecology and Histology,* 924 Seventeenth Street.

FRANCIS S. MACHEN, M. D.,

*Demonstrator of Obstetrics,*

WM. H. FOX, M. D.,

*Clinical Demonstrator in Ophthalmology,* 1138 Connecticut Avenue.

WALTER McM. LUTTRELL, M. D.,

*Prosecutor of Anatomy and Assistant Demonstrator,* 926 New York Avenue.

EDWIN M. HASBROUCK, M. D.,

*Prosecutor of Anatomy and Assistant Demonstrator.* 2422 Fourteenth Street N. W.

C. C. MARBURY, M. D.,

*Assistant Demonstrator of Anatomy,* 1121 Fourteenth Street.

A. L. HOWARD, M. D.,

*Assistant Demonstrator of Anatomy,* 124 S Street.

RALPH B. DURFEE, M. D.,

*Assistant Demonstrator of Anatomy,* 1814 K Street.

F. L. BISCOE, M. D.,

*Assistant Demonstrator in Anatomy and Pathology,* The Farragut.

THOMAS F. LOWE, A. B., M. D.,

*Assistant Demonstrator in Anatomy and Histology,*

R. A. WARNER, M. D.,

*Assistant Demonstrator in Histology.*

W. P. REEVES, M. D.,

JOHN J. REPETTI, M. D.,

*Assistant Demonstrators in Medical Chemistry.*

#### SPECIAL LECTURERS.

JOHN W. ROSS, M. D.,

MEDICAL DIRECTOR U. S. NAVY.

*Tropical Diseases*

JOSEPH J. KINYOUN, P. D., M. D.,

PHILADELPHIA, PA.

*Immunity, Serum—Therapy and Preventive Inoculations.*

EDWARD L. KEYES, JR., P. D., M. D.,

NEW YORK.

*Diseases of the Genito-Urinary Organs.*

GEORGE M. KOBER, M. D.,

Dean and Treasurer.

920 H Street.

Telephone Main No. 632-M.

## GEORGETOWN UNIVERSITY HOSPITAL STAFF.

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### DEPARTMENT OF MEDICINE.

Professor SAMUEL S. ADAMS, M. D., Chief.  
Professor J. DUDLEY MORGAN, M. D., Associate.  
JOHN D. THOMAS, M. D., Assistant.  
LOREN B. T. JOHNSON, M. D., Assistant.

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Professor GEORGE T. VAUGHAN, M. D., Chief.  
Professor HARRISON CROOK, M. D., Associate.  
M. D'ARCY MAGEE, M. D., Assistant.  
WILLIAM C. GWYNN, M. D., Assistant.  
JOHN A. O'DONOGHUE, M. D., Assistant.  
FRANCIS S. MACHEN, M. D., Assistant.  
TRUMAN ABBE, M. D., Assistant.  
JESSE RAMSBURGH, M. D., Oral Surgeon, Dental Department.

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W. SINCLAIR BOWEN, M. D., Associate.  
LOREN B. T. JOHNSON, M. D., Assistant.  
RALPH B. DURFE, M. D., Assistant.

### DEPARTMENT OF OBSTETRICS.

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FRANCIS S. MACHEN, M. D., Assistant.

### DEPARTMENT OF OPHTHALMOLOGY AND OTOTOLOGY.

Professor SWAN M. BURNETT, M. D., Chief.  
C. R. DUFOUR, M. D., Associate.

### DEPARTMENT OF LARYNGOLOGY AND RHINOLOGY.

Professor T. MORRIS MURRAY, M. D., Chief.  
WALTER A. WELLS, M. D., Assistant.

### DEPARTMENT OF DERMATOLOGY.

Professor J. C. MCGUIRE, M. D.

### DEPARTMENT OF PATHOLOGY.

Professor EDWIN B. BEHREND, M. D.  
JOHN A. O'DONOGHUE, M. D., Assistant.

### RESIDENT PHYSICIANS.

THOMAS F. LOWE, A. B., M. D.  
FRANK H. McKEON, M. D.  
SAMUEL L. OWENS, M. D.  
HORATIO ELY ABRAHAM, M. D.

## ANNOUNCEMENT FOR 1903-1904.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Monday, September 28, 1903, and end Saturday, May 31, 1904.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction so that more time may be given to practical work in laboratories and hospitals. The instruction will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual, and prepares graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy and Marine Hospital Service. Of 24 applicants for the Army and Marine Hospital Service, since 1898, 23 passed and only one failed.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

Congress during its last session appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as Assistants during the vacation months in these Laboratories.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to

the student, that are unrivaled in America and are equal to those in most European capitals. These collections are for the most part freely open to the public, or can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

## LIBRARIES.

The Library of Congress .....	700,000 vols.
The Library of the Surgeon-General's Office..	140,539 vols.
The Library of the National Museum .....	16,000 vols.
The Library of the Museum of Hygiene .....	10,500 vols.
The Library of the Bureau of Ethnology .....	5,000 vols.
The Library of the Bureau of Education .....	30,000 vols.
The Library of the Department of Agriculture	25,000 vols.

## MUSEUMS, ETC.

- \*The Army Medical Museum.
- \*The Museum of Hygiene.
- \*The United States National Museum.
- \*The Museum of the Agricultural Department.
- \*The Botanical Garden.
- \*The United States National Zoological Park.

## REQUISITES FOR ADMISSION.

Creditable certificates of good moral character, signed by two physicians of good standing in the State, Territory or District in which the applicant last resided.

As evidence of preliminary education an entrance examination is required. It may be waived if an applicant can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, normal or high school, or state examining board.

The examination shall comprise the following subjects:

(a) A thorough knowledge of English grammar, composition and rhetoric. (b) Mathematics, including higher arithmetic, algebra through quadratics. (c) Latin, the equivalent of one year's study in a good high school, covering at least one book of Caesar's Commentaries or an equivalent thereof. (d) Elementary physics. (e) United States history.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend



any of the courses upon giving satisfactory evidence that they are qualified to intelligently avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Monday, September 28, Tuesday, September 29, and Wednesday, September 30, 1903, at 2 p. m.

#### METHOD OF INSTRUCTION.

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and by instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction:

#### ANATOMY.

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

#### OSTEOLOGY.

EMORY W. REISINGER, M. D.,

Assistant to the Professor of Anatomy

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like what the study of the softer parts is in the dissecting room, and is an indispensable preliminary to that work.

#### PRACTICAL ANATOMY.

EMORY W. REISINGER, M. D.,

Demonstrator.

The dissecting room will be open daily for students, after October 15th, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

### HISTOLOGY.

R. S. BLACKBURN, M. D.

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to thoroughly cover the subject of animal histology, the human tissues being compared with those of the lower vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearances.

### EMBRYOLOGY.

SYLVESTER D. JUDD, B. S., PH. D.

This course will consist of lectures and laboratory work. It will begin with spermatogenesis and ovogenesis, and then taking up the development after fertilization will proceed to the formation of the rudiment of the embryo, and conclude with a consideration of organology.

### PHYSIOLOGY.

PROFESSOR MURRAY GALT MOTTER, B. S., A. M., M. D.

This course will consist of lectures upon General and Special Physiology, together with recitations, frequent examinations, and, in so far as possible, practical demonstrations.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

### MATERIA MEDICA AND THERAPEUTICS.

PROF. G. LLOYD MAGRUDER, A. M., M. D.,

One of the Consulting Physicians to Providence Hospital, and the Central Dispensary and Emergency Hospital.

Instruction in this Department will extend over the first three years of the medical course.

Students of the second and third year will be instructed in the physiological action and therapeutical use of drugs, and in prescription writing.

### MATERIA MEDICA.

WILFRED M. BARTON, M. D.

Under this course students of the first year will be taught the appearance and physical properties of the crude drugs

and the preparations derived therefrom, illustrated by actual specimens. The elements of pharmacology will also be taught, including the compounding of medicinal substances and preparations, incompatibilities, weights and measures, doses, etc.

### CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonism is briefly considered, while the evidence of poisoning as furnished by chemical analysis is considered more in detail.

### PHYSICS.

TRUMAN ABBE, A. B., M. D.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

### GENERAL PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class

recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first-half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second-half year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, fæces, gastric contents, sputum, pathological exudates, etc., with especial reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

### **SPECIAL PATHOLOGY AND MORBID ANATOMY.**

PROF. I. W. BLACKBURN, M. D.

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to consideration of tumors and morbid growths in general and in connection with special pathology to the pathology of mental diseases, and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes.

### **SURGICAL PATHOLOGY AND MILITARY SURGERY.**

PROF. W. C. BORDEN, M. D., F. R. M. S.,

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

### **THEORY AND PRACTICE OF MEDICINE AND DISEASES OF CHILDREN.**

PROF. SAMUEL S. ADAMS, A. M., M. D.

Attending Physician to Georgetown University and Children's Hospitals, Consulting Physician to Government Hospital for Insane.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such manner as to give the student a clear conception of the methods of discrimination and management of



the various diseased conditions. This teaching, together with the supplementary advantages offered by the various clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

### PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.

One of the Attending Surgeons at the Emergency Hospital and Chief Surgeon Georgetown University Hospital Consulting Surgeon Government Hospital for Insane.

This course in surgery extends over two years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics which are held at the various hospitals and dispensaries, which afford material in abundance.

The Third Class is instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of all kinds of surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

### OBSTETRICS.

PROF. JOHN F. MORAN, A. B., M. D.

Obstetrician, Georgetown University and Columbia Hospitals.

Obstetrics will be taught didactically, and, as far as practicable, instruction will be given at the bedside. The entire course will be graded, and will consist of classified lectures, comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which he was required to keep records and present written reports. In future, every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will also be urged.

An operative course on the Budin-Pinard manikin will be given. Instruction will be given in abdominal palpation, in digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of the forceps, version, etc.



**GYNECOLOGY AND ABDOMINAL SURGERY.**

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

One of the Consulting Physicians to the Central Dispensary and Emergency Hospital, Consulting Gynecologist to the Woman's Dispensary and the Government Hospital for Insane. Surgeon in Charge of his own Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recitations, and also in small classes at private operations, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery will receive special attention.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

**OPHTHALMOLOGY AND OTOTOLOGY.**

PROF. SWAN M. BURNETT, PH. D., M. D.,

Ophthalmologist and Otolologist to Georgetown University, Providence and Children's Hospitals, and to the Central Dispensary and Emergency Hospital.

The course begins with lectures on the anatomy of the eye and ear illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and acoustics and the proper methods of examining the eye and ear. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye and ear are wholly clinical; illustrative cases, being taken from Dr. Burnett's extensive service at the Central Dispensary and Emergency Hospital, and at Children's, Providence, and the University Hospitals. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than twelve hundred new cases of eye and ear diseases are treated annually at the Central Dispensary alone. Every important operation on the eye is performed in the presence of each section.

Dr. C. R. Dufour, Demonstrator of Ophthalmology and Otology, gives clinical demonstrations twice a week at the Eastern Dispensary and University Hospital.

**PHYSICAL DIAGNOSIS, LARYNGOLOGY, AND RHINOLOGY,**

PROF. T. MORRIS MURRAY, M. D.,

Director of the Throat and Chest Clinic Georgetown University Hospital and at the Central Dispensary and Emergency Hospital.

In addition to the didactic lectures on the principles of physical diagnosis and laryngology at the college there will be demonstrations in these branches to the students at Dr. Murray's very large clinic for diseases of the throat and chest at the Central Dispensary and Emergency Hospital. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Murray; thus they will be made familiar with one of the most important branches of medical practice.

## HYGIENE.

PROF. GEORGE M. KOBER, M. D.

Consulting Physician to Children's Hospital, Washington Asylum Hospital, Providence Hospital and Central Dispensary and Emergency Hospital.

The course on hygiene will extend over two years and will include lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages, and condiments, morbid and infected food products; the skin, bath, and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

## STATE MEDICINE.

PROF. W. C. WOODWARD, M. D., LL. M.

Health Officer District of Columbia.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon students in their fourth year.

## MEDICAL ZOOLOGY.

PROF. CH. WARDELL STILES, A. M., PH. D.,

Zoologist United States Bureau of Public Health and Marine Hospital Service, Honorary Custodian of the Helminthological Collection, United States National Museum, Correspondent Etranger de l'Academie de Medecine (Paris).

This course comprises a series of lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life-history of the different forms, and the best means of treatment and prevention. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for the course, and exhibitions of specimens. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of feces, for determining the presence of parasites. An opportunity to carry on original investigation in Medical Zoology, under the direct supervision of Dr. Stiles will be offered to graduates or to advanced students who may desire to pay special attention to this branch.

## DERMATOLOGY.

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology, etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by

plates. A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

#### MENTAL AND NERVOUS DISEASES.

PROF. A. B. RICHARDSON, M. D.,

Superintendent of the Government Hospital for the Insane.

This course will consist of twelve clinical lectures at the Government Hospital for the Insane. Members of the Fourth Class only will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity which are usually seen in the practice of the general practitioners in medicine.

#### DISEASES OF THE NERVOUS SYSTEM AND ELECTROTHERAPEUTICS.

PROF. D. PERCY HICKLING, M. D.,

Visiting Physician in charge Washington Asylum Hospital.

This course will embrace those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course on Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures will be amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

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#### CLINICAL INSTRUCTION AND ADVANTAGES. GEORGETOWN UNIVERSITY HOSPITAL.

*Corner Thirty-fifth and N Streets N. W.*

Attendance upon clinical instruction is obligatory for students of the third and fourth years.

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics will be given by the following professors of this school and by other members of the Hospital and Dispensary staff.

*Surgical.*—Dr. Vaughan.

*Medical.*—Dr. Adams.

*Gynecological.*—Dr. Johnson.

*Diseases of the Eye and Ear.*—Drs. Burnett and Dufour.

*Diseases of the Throat, Chest and Nose.*—Dr. Murray.

*Dermatology.*—Dr. McGuire.

#### PROVIDENCE HOSPITAL.

*Capitol Hill, corner Second and D Streets S.E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government. It contains over three hundred beds. The medical and surgical wards are usually well filled with interesting cases. In the new surgical amphitheater, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Regular Clinics are given by the following Professors:

*Surgical.*—Drs. Bayne, Crook, and Mallan.

*Diseases of the Eye and Ear.*—Dr. Burnett.

*Clinical Medicine.*—Dr. Vincent.

*Gynecological.*—Dr. Cuthbert.

Drs. Magruder and Kober are on the Consulting Staff.

An annual fee of \$5, covering all the clinics for the year, is charged by the hospital authorities.

#### CHILDREN'S HOSPITAL,

*W Street, between Twelfth and Thirteenth Streets N.W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to thoroughly observe and comprehend the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2:30 to 4:30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Burnett and Adams who are on the Staff will give clinical instruction at this hospital. Drs. Johnson and Kober are on the Consulting Staff.

#### CENTRAL DISPENSARY AND EMERGENCY HOSPITAL

*Fifteenth Street and Ohio Avenue N.W.*

During the last year over 15,000 patients were treated here, and over 1,200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As a large proportion of the serious cases of accidents that occur in the city are first brought to the hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance



to the young practitioner. Students are admitted to the services. The new building just completed offers greatly improved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery.

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of practical bacteriology, pathology and Röntgen ray work in association with surgery and medicine. Dr. Wallace Johnson is in charge of pathology in this laboratory. Doctors Johnson, Magruder and Kober are on the Consulting Board.

Regular clinics are given by the following Professors of this school and other members of the staff.

*Surgical.*—Dr. Vaughan.

*Diseases of the Ear and Eye.*—Dr. Burnett.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose.*—Dr. Murray.

#### GARFIELD MEMORIAL HOSPITAL,

*Florida Avenue and Tenth Street N.W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical.*—Dr. J. D. Morgan.

*Obstetrical and Gynecological.*—Dr. H. D. Fry.

In all the above Hospitals the positions of Resident and Assistant Resident Physician are open to competitive examination to graduates of this school.

In addition to the foregoing, clinics will be given by—

Dr. A. B. Richardson; *Mental and Nervous Diseases* at Government Hospital for Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Dr. Jno. F. Moran, *Obstetrical*, Columbia Hospital.

Dr. Wm. C. Borden, *Surgical*, U. S. General Hospital, Washington Barracks.

Dr. D. Percy Hickling, *Medical and Surgical*, Washington Asylum Hospital.

Dr. Llewellyn Eliot, *Medical*.

#### EXAMINATIONS.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics, physiology, and materia medica.

The *Second Class* upon anatomy, physiology, chemistry, urinalysis, therapeutics, bacteriology, medical zoology, minor surgery and toxicology.

The *Third Class* upon therapeutics, the practice of medicine, surgery, obstetrics, gynecology, general pathology,



special pathology and morbid anatomy, surgical pathology and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis, ophthalmology and otology, hygiene, state medicine, mental diseases, dermatology, electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

#### *Re-examinations.*

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session, and students will not be permitted to advance to higher classes unless their deficiencies of the previous year have been made up. If the student fails upon re-examination in only one study, he will be permitted to progress to the next year on condition that the examination in the study in which he was deficient be passed on or before October 15th of the same year.

Students failing to comply with the foregoing requirements will have to repeat the yearly course for which the examination has been held.

#### REQUIREMENTS FOR GRADUATION.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction, delivered in some recognized medical school, the last of which shall have been delivered in this institution.

#### FEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	110 00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to pay all charges for injury to microscopes, apparatus and other college property.

#### FEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs.....	\$20 00
Dissection . . . . .	10 00
Practical chemistry, including chemicals . . . . .	25 00
Didactic and laboratory course in histology, pathology or bacteriology, each.....	25 00
Operative surgery on the cadaver, per course . . . . .	20 00

No graduation fee is required.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examinations without previous registration.

The Society of Alumni of Georgetown University established in 1900 a Medical Scholarship. All nominations of

candidates shall be made by members of the Society of Alumni, and shall be confined to deserving young men of limited means, preferably the sons and near relatives of members of the Society. Candidates for these scholarships will be examined whenever there are vacancies.

A student repeating a course for any reason will be charged full fees for that course.

Good board, at \$20 per month and upwards, can be obtained in the immediate vicinity of the college.

For further information apply to

GEORGE M. KOBER, M. D., *Dean.*

920 H Street N. W.

## The Washington Post-Graduate Medical School.

Believing that the National Capital presents many special advantages for graduate medical instruction, the leading members of the profession in Washington city have organized a Post-Graduate Medical School. The course of instruction will consist principally of clinics at the different hospitals of the city and of practical laboratory work. Didactic lectures will also be given during the regular course upon such branches as Preventive Medicine, Military Medicine and Surgery, Preventive Inoculations, Serum Therapy, etc.

General George M. Sternberg, U. S. A., has been elected president of the faculty, and the surgeon-generals of the army, navy, public health, and marine hospital service are members of the executive committee.

It is believed that the course of instruction will be especially valuable for the general practitioner and for those who intend to practice surgery, gynecology, ophthalmology, laryngology, or some other specialty. The special attention given to Preventive Medicine, to Tropical diseases, and to laboratory work in Bacteriology and Sanitary Chemistry will afford health officers and physicians who desire to enter one of the branches of the Governmental or Colonial service unusual advantages for perfecting themselves in the scientific studies which must serve as a foundation for their practical work.

The didactic and laboratory work are given at *Georgetown University Department of Medicine*, and *The Columbian University Department of Medicine* and the clinics at the various Universities, City, and Government Hospitals.

The first session of the School began on January 12, 1903. Applicants for clinical and laboratory instruction may matriculate at any time. Circulars containing full information will be sent upon application to the President of the Faculty, General George M. Sternberg, U. S. A., 2144 California Avenue, Washington, D. C.

# DENTAL DEPARTMENT.

## FACULTY.

- REV. JEROME DAUGHERTY, S. J.,  
*President of Georgetown University.*
- SHELDON G. DAVIS, D. D. S.,  
*Vice-President and Professor of Metallurgy, and Crown and Bridge Work.*
- WILLIAM N. COGAN, D. D. S.,  
*Dean of the Faculty, Professor of Dental Technics and Orthodontia.*
- GEORGE M. KOBER, M. D.,  
*Treasurer of the Faculty.*
- F. H. SHULTZ, D. D. S.,  
*Professor of Operative Dentistry.*
- SHIRLEY W. BOWLES, D. D. S.,  
*Professor of Prosthetic Dentistry.*
- M. M. DOLMAGE, D. D. S.,  
*Professor of Dental Pathology and Histology.*
- JESSE RAMSBURGH, A. M., M. D.,  
*Professor of Oral Surgery.*
- FRANK BAKER, A. M., M. D., PH. D.,  
*Professor of Anatomy.*
- G. LLOYD MAGRUDER, A. M., M. D.,  
*Professor of Materia Medica and Therapeutics.*
- MURRAY GALT MOTTER, B. S., A. M., M. D.,  
*Professor of Physiology.*
- JOHN D. HIRD, A. M.,  
*Professor of Chemistry and Toxicology.*
- EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology.*

## SPECIAL LECTURERS.

- GEORGE E. HAMILTON, LL. D.,  
*Dental Jurisprudence.*

## ASSISTANTS AND DEMONSTRATORS.

- WILFRED M. BARTON, M. D.,  
*Assistant to Chair of Materia Medica and Therapeutics.*
- EDWIN R. HODGE, M. D.,  
*Assistant to Chair of Anatomy.*
- TRUMAN ABBE, A. B., M. D.,  
*Instructor in Physics and Assistant to Professor of Physiology.*
- G. HARRIS WHITE, D. D. S.,  
*Assistant in Dental Histology.*
- M. M. DOLMAGE, D. D. S.,  
*Superintendent of Laboratories and Clinics.*
- G. HARRIS WHITE, D. D. S.,  
*Demonstrator of Operative Dentistry.*
- A. S. WEAVER, D. D. S.,  
*Demonstrator of Prosthetic Dentistry.*
- J. M. GOMPERTZ, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*
- A. L. GARABEDIAN, D. D. S.,  
*Assistant Demonstrator of Prosthetic Dentistry.*
- J. D. SULLIVAN, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*

### REQUISITES FOR ADMISSION.

The Dental Department conforms to the rules and regulations of the National Association of Dental Faculties as well as to those of the National Association of Dental Examiners. In accordance with these regulations, a preliminary examination, equivalent to a certificate of entrance into the third year of a high school, is required as a condition of admission. This will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course, finally passed in recognized institutions.

Those presenting certificates of examination from other reputable dental colleges of equal requirements will be admitted to the respective higher class without further examination.

The preliminary examinations will be held at the college building on the Monday preceding the opening of the session.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless they have been prevented by sickness, which must be vouched for by the certificate of a reputable practicing physician. In that case the date of admission shall not be later than twenty days from the opening day.

Students must continue in attendance until the close of the session in order to obtain credit for a full term.

### METHODS OF INSTRUCTION.

The course of instruction will consist of didactic lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begins with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.

THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating-rooms* unequaled in point of lighting, heating, and conveniences. They are furnished with all the requirements of such apartments. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anesthetics, for the extraction of teeth; also one for taking impressions, occlusions, and doing work re-

quiring the use of plaster or wax. The preparation and administration of sulphuric ether and nitrous oxide during the session familiarizes students with these valuable agents.

The infirmary is under the immediate and continuous direction of a corps of competent demonstrators, who are always present to instruct and assist the students in their work. In this department the student is taught the art of operative dentistry. The press of patients is very great, and the opportunities for practice unequalled. The student not only witnesses every kind of dental manipulation as practiced by the experienced, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session, and, indeed, is considered as the only thing essential to becoming a competent dental practitioner.

Each student is expected to provide his own instruments—a list of which may be obtained on application to the demonstrator in charge—with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

The operating-rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each day during the session.

### CURRICULUM.

The instruction embraces a graded course of four years, each course followed by examinations thereon.

Punctual attendance upon the lectures and other exercises is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study:

#### FIRST YEAR.

Lectures and Recitations.		Laboratory.
Anatomy,	4 hours	As assigned.
Osteology,	2 hours for 3 mos.	
Histology General and dental)		
Materia Medica	2 hours.	4 hours.
Chemistry,	3 hrs. for 3 mos.	1 hour.
Physics,	1 hour.	3 hrs for 3 1-2 mos.
Operative Technics,	1 hour.	12 hours.
Prosthetic Technics	1 hour.	12 hours.

#### SECOND YEAR.

Anatomy	4 hours.	As assigned.
Physiology,	3 hours.	
Therapeutics,	3 hours.	
Chemistry,	3 hours for 3 mos.	3 hrs for 3 mos.
Pathology,	2 hours.	
Bacteriology,		12 hrs for 2 mos.
Operative Dentistry	2 hours	2 hours.
Prosthetic Dentistry	2 hours	2 hours.
Infirmary Practice		12 hours.



## THIRD YEAR.

Physiology,	3 hours.	
Therapeutics,	3 hours.	
General Pathology,	2 hours.	
Oral Surgery,	2 hours.	
Dental Pathology,	1 hour.	1 hour.
Prosthetic Dentistry	2 hours.	2 hours.
Operative Dentistry	2 hours.	2 hours.
Infirmary Practice,		24 hours.

## FOURTH YEAR.

Orthodontia,	1 hour.	1 hour.
Clinical Dentistry,	1 hour.	2 hours.
Dental Medicine,	1 hour.	
Oral Surgery,	2 hours.	
Ethics, Jurisprudence	1 hour.	
Metallurgy,	1 hour.	
Infirmary Practice,		30 hours.

## COURSE OF STUDY.

## METALLURGY AND CROWN AND BRIDGE WORK.

PROF. SHELDON G. DAVIS, D.D. S.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by both didactic and clinical instruction, as well as special demonstrations in difficult cases.

Careful attention will be paid to the chemistry of metals and all the materials used in Dentistry.

## ORAL PROSTHESIS.

PROF. SHIRLEY W. BOWLES, D. D. S.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: the preparation and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect articulations, the methods of constructing the different bases used for dentures, and the construction and application of obturators.

Esthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

## OPERATIVE DENTISTRY.

PROF. FRANK H. SHULTZ, D. D. S.

The lectures from the chair of operative dentistry present the means and methods in use for the preservation of the natural teeth, together with the principles which form the basis of practice, including a description of instruments and their uses, also appliances and materials used in operating; the treatment and preparation of cavities; the methods of

filling with various forms of gold and plastic materials. A special feature of instruction from this chair will be practical demonstrations in the mouth, in the infirmary, before the entire class.

### **ORAL SURGERY.**

PROF. JESSE RAMSBURGH, A. M., M. D.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis, and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

### **DENTAL TECHNICS AND ORTHODONTIA.**

PROF. W. N. COGAN, D. D. S.

This course while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observation, enabling the student to become familiar with the forms and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the human subject.

The treatment of irregularities of the dental arch require great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

### **DENTAL CERAMICS.**

A special course of instruction in Dental Ceramics is arranged for the graduating class. The college is provided with a large electric furnace, and porcelain inlays and crown and bridge work, together with continuous gum work, will receive special attention.

### **ANATOMY.**

PROF. FRANK BAKER, M. D., PH. D.

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention will be given to the descriptive anatomy of the head, face, neck, and oral cavity.

For Histology and Osteology see page 25.

The demonstrator of practical anatomy will have chagrin of the class in the dissecting-room, where dissecting material will be supplied in abundance.

#### PHYSIOLOGY.

PROF. MURRAY GALT MOTTER, B. S., A. M., M. D.

One of the features of the progress and development of modern Dentistry is its closer association with the wider field of General Medicine through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a fuller knowledge of the whole organism, in order that he may, the more intelligently, deal with that part of it which is his more immediate province. To this end, the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while their practical application will be pointed out in lectures, recitations, and, where possible, practical demonstrations.

#### MATERIA MEDICA AND THERAPEUTICS.

PROF. G. LLOYD MAGRUDER, A. M., M. D.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contraindications for their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

#### CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the vital chemistry of anesthetics, and the special chemistry of the mouth, the stomach, and intestinal tube will be fully treated.

#### PHYSICS.

TRUMAN ABBE, A. B., M. D.

A course of the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

#### PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship

to dental pathology and therapeutics. The instructions are principally practical and embrace full laboratory teaching of the most important subjects of these studies.

### DENTAL HISTOLOGY AND PATHOLOGY.

PROF. M. M. DOLMAGE, D. D. S.

The lectures on Dental Pathology include such portions of general pathology as are of special interest to the dental student.

A detailed consideration is given of all the diseases of the teeth and surrounding parts; normal and abnormal character of oral secretions; dentition and its pathological results. The treatment necessary under each head is minutely detailed.

The lectures on Histology include the comparative anatomy and the development of the teeth, and their component tissues and functions of dental organs.

### GRADUATION.

At the close of the fourth year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions:

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

The examinations are conducted orally and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the *Dental Infirmary* must be exhibited to the professor of Operative Dentistry, and such other specimen work as he may require; also an approved specimen of dental mechanism constructed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

### FEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year .....	100 00

Charge will be made for breakage in laboratories.

A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1 ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

For further information apply in person or by letter to

WILLIAM N. COGAN, D. D. S., Dean,  
The Sherman, 15th and L Street N. W., Washington, D. C.

# MEDICAL DEPARTMENT.

## MATRICULATES, 1902-1903.

ABRAHAMS, HORATIO E.	Texas.
ADAMS, ROY D.	District of Columbia.
APPERIOUS, SAMUEL H.	Alabama.
ASHFORD, MAHLON.	District of Columbia.
BARTON, F. R.	Nova Scotia.
BASTION, J. EDWARD	Massachusetts.
BAYLY, ROZIER C.	District of Columbia.
BAYNE, J. BRECKINRIDGE	District of Columbia.
BERNSTEIN, HYMAN	District of Columbia.
BERTH, WILLIAM H.	Rhode Island.
BLAKISTONE, J. G.	District of Columbia.
BOLAND, MARTIN	Massachusetts.
BRENNAN, JOHN E.	Connecticut.
BRISCOE, JOHN P.	Maryland.
BURBANK, CARYL	District of Columbia.
BURKE, FRED. B.	Michigan.
BYRNES, BERNARD L.	New York.
CARNEY, PATRICK J.	Massachusetts.
CARROLL, J. EDWARD	Massachusetts.
CASEY, WILLIAM B.	Connecticut.
CLARE, MAURICE F.	Massachusetts.
COLEMAN, DAVID C.	Massachusetts.
COLEMAN, W. P.	Maryland.
COLLINS, JOSEPH H.	Pennsylvania.
CONLIN, CHARLES F.	Massachusetts.
CONNOLLE, JOHN F.	Pennsylvania.
CONNOR, ALBERT N.	District of Columbia.
CONNOR JOHN E.	Massachusetts.
CONSTAS, JOHN	Greece.
COONEY, MARTIN J.	Massachusetts.
COTTER, TIMOTHY F.	Massachusetts.
CURRAN, JOHN D.	Pennsylvania.
CURTIN, JOHN FRANCIS.	Massachusetts.
DAVIS, EZRA M.	South Carolina.
DE VANNY, DAVID A.	New York.
DEVLIN, JOSEPH A.	New York.
DIGGES, JOHN H.	Maryland.
DOUGHERTY, GERALD.	Delaware.
DRENNAN, LAWERENCE M.	Virginia.
DUNN, ROBERT D.	Rhode Island.
ESCH, VICTOR H.	District of Columbia.
FARRELL, JOHN R.	New York.
FLYNN, CHARLES B.	Massachusetts.
FOOTE, JOHN A.	Pennsylvania.



FORVE, L. P.....	Pennsylvania.
FREY, JOSEPH I.....	New York.
GANNON, JAMES A.....	District of Columbia.
GARNETT, ROBERT S.....	Florida.
GILLULY, JOHN F .....	Rhode Island.
GRADY, JAMES A.....	Connecticut.
GRIFFITH, CHARLES I.....	District of Columbia.
GREEN, ROBERT J.....	District of Columbia.
HAMILTON, RALPH A.....	District of Columbia.
HARRISON, W. B.....	Mississippi.
HAYDEN, DANIEL B.....	Illinois.
HAYDEN, REYNOLDS.....	District of Columbia.
HEMLER, WILLIAM FRANCIS.....	Pennsylvania.
HILTON, JAMES F.....	District of Columbia.
HOLLAND, WILLIAM J.....	Massachusetts.
HOPKINS, ALFRED F.....	District of Columbia.
HOUGH, WILLIAM H.....	Virginia.
HOWARD, STANTON W.....	District of Columbia.
HOWE, THEODORE G.....	New York.
HUBER, LEVI HOUSTON.....	Pennsylvania.
HUNTER, EDWIN C.....	District of Columbia.
HUNTER, W. MYERS .....	North Carolina.
HUSSEY, JOHN P.....	Rhode Island.
JARBOE, J. PARREN .....	Maryland.
JOHNSON, PAUL B.....	District of Columbia.
JONES, PERCY L. (special course).....	Tennessee.
JONES, GEO. W.....	District of Columbia.
KAVENEY, JOSEPH J.....	Massachusetts.
KELLEHER, J. EDWARD.....	Massachusetts.
KENNEDY, WILLIAM JOSEPH.....	West Virginia.
KERNS, FRANK J.....	Massachusetts.
KETT, MICHAEL C.....	Colorado.
KIRBY, WILLIAM P.....	District of Columbia.
LAMB, WILLIAM J. C.....	Pennsylvania.
LIGHT, GIVEN A.....	Pennsylvania.
LITZINGER, RAYMOND W.....	Pennsylvania.
LINNEHAN, GEO. A.....	Massachusetts.
LYMAN, JOHN W.....	Massachusetts.
MCCARTHY, CHAS. H.....	Rhode Island.
MCCORMICK, JOHN J.....	Massachusetts.
MCQUILLAN, FRANK.....	Rhode Island.
MACKALL, BRUCE.....	District of Columbia.
MANION, WILLIAM T.....	New York.
MONOHAN, JOHN M.....	Kentucky.
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## CALENDAR.

1903.	
SEPT.	28, 29, and 30—Examinations for admission and re-examinations every day at 2 P. M.
OCT.	1—Lectures begin at 1:30 P. M.
NOV.	27, 28, and 29.—Thanks giving holidays.
DEC.	23.—Christmas recess begins at 5 P. M.
1904.	
JAN.	4.—Lectures resumed.
FEB.	22.—Legal holiday.
MCH.	31.—Easter recess begins at 5 P. M.
APR.	5.—Lectures resumed.
MAY	14.—Lecture course completed.
MAY	16.—Examinations begin.
JUNE	9.—Commencement.

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1904/05

UNIVERSITY OF ILLINOIS

PRESIDENT'S OFFICE.

FIRST SERIES.

No. 1.

# Georgetown University Publication.

BULLETIN

OF THE

## SCHOOL OF MEDICINE

and DENTAL DEPARTMENT

ANNOUNCEMENT FOR THE SESSION OF

1904-1905



WASHINGTON, D. C.

PUBLISHED BY GEORGETOWN UNIVERSITY.

QUARTERLY

[APRIL TO JUNE, 1904]

*Entered at the Washington, D. C., post-office  
as second-class matter*

Georgetown University. 1904-05.

## Calendar for 1904-1905.

1904.

SEPT. 26, 27, 28, 29, 30, and OCT. 1st—Examinations for admission and re-examinations every day at 2 P. M.

OCT. 3—Lectures begin at 1:30 P. M.

NOV. 24, 25 and 26—Thanksgiving Holidays.

DEC. 23—Christmas recess begins at 5 P. M.

1905.

JAN. 2—Lectures resumed.

FEB. 22—Legal Holiday.

APR. 19—Easter Recess begins at 5 P. M.

APR. 25—Lectures resumed.

MAY 20—Lecture course completed.

MAY 22—Examinations begin.

JUNE 12—Commencement.

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## The Post-Graduate Medical School.

Believing that the National Capital presents many special advantages for graduate medical instruction, the leading members of the profession in Washington city have organized a Post-Graduate Medical School. The course of instruction will consist principally of clinics at the different hospitals of the city and of practical laboratory work. Didactic lectures will also be given during the regular course upon such branches as Preventive Medicine, Military Medicine and Surgery, Preventive Inoculations, Serum Therapy, whenever a sufficient number of students apply for such a course.

General George M. Sternberg, U. S. A., has been elected president of the faculty, and the Surgeon-Generals of the Army, Navy, Public Health, and Marine Hospital Service are members of the executive committee.

It is believed that the course of instruction will be especially valuable for the general practitioner and for those who intend to practice surgery, gynecology, ophthalmology, laryngology, or some other specialty. The special attention given to Preventive Medicine, to Tropical diseases, and to laboratory work in Bacteriology and Sanitary Chemistry will afford health officers and physicians who desire to enter one of the branches of the Governmental or Colonial service unusual advantages for perfecting themselves in the scientific studies which must serve as a foundation for their practical work.

Applicants for clinical and laboratory instruction may matriculate at any time. Circulars containing full information will be sent upon application to the secretary, Dr. GEORGE M. KOBER, 920 H Street, N. W., Washington, D. C.



# GEORGETOWN UNIVERSITY.

## EDUCATIONAL ADVANTAGES OF WASHINGTON.

Georgetown University, in the city of Washington, was chartered by Congress March 1st, 1815, and consists of the following departments :

DEPARTMENT OF ARTS AND SCIENCES.

[Undergraduate and Graduate.]

THE ASTRONOMICAL OBSERVATORY.

SCHOOL OF MEDICINE.

[Undergraduate and Graduate.]

GEORGE M. KOBER, M. D., Dean, 920 H street N. W.

DEPARTMENT OF DENTISTRY.

WILLIAM N. COGAN, D.D.S., Dean, 920 H Street N. W.

SCHOOL OF LAW.

[Undergraduate and Graduate.]

HON. HARRY M. CLABAUGH, LL. D., Dean, 506-508 E street, Washington, D. C.

Each School or Department is under the direction of its own Dean, and each Faculty has the power of legislating on its own affairs, but this power can be exercised only in subordination to the President and Directors of the University, and subject to their approval.

## HISTORY.

The foundation of Georgetown College was projected as early as the year 1785, when the Rev. John Carroll, afterwards the first Archbishop of Baltimore, formed the plan and proposed it to his associates. On November 13, 1786, the Corporation of Roman Catholic Clergymen, in the Chapter held at Whitmarsh, Md., adopted a series of "Resolves Concerning the Institution of a School," in which it ordered that a School should be erected at Georgetown, Md., and directed the sale of a piece of land belonging to the corporation, in order that the proceeds might be applied to the erection of the first building. Rev. Messrs. John Carroll, James Pellenz, Robert Molyneux, John Ashton, and Leonard Neale were appointed Directors.

Shortly afterwards an appeal was issued, entitled "Proposals to Establish an Academy at Georgetown, Potowmack River, Maryland." In this circular it was stated that "Agreeably to the liberal Principle of our Constitution, the Seminary will be open to students of Every Religious Profession." In 1788 the erection of the first building was undertaken; yet 1789 is commonly considered the year of the foundation of the College,

as the deed of the original piece of ground was dated January 23 in that year. Students were not received before 1791. Upon the reorganization of the Society of Jesus in Maryland, in 1805, the Georgetown College, as it had already begun to be called, was transferred to the Fathers of that Society, under whose control and direction the University still remains.

An act of Congress, dated March 1, 1815, reads as follows :

" AN ACT

" CONCERNING THE COLLEGE OF GEORGETOWN IN THE DISTRICT OF COLUMBIA :

" Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall and may be lawful for such persons as now are, or from time to time may be, the President and Directors of the College of Georgetown, within the District of Columbia, to admit any of the students belonging to said College, or other persons meriting academical honors, to any degree in the faculties, arts, sciences, and liberal professions, to which persons are usually admitted in other Colleges or Universities of the United States ; and to issue in an appropriate form the diplomas or certificates which may be requisite to testify to the admission to such degree.

" LANGDON CHEEVES,

" Speaker of the House of Representatives.

" JOHN GAILLARD,

" President pro tempore of the Senate.

" Approved March 1, 1815.

" JAMES MADISON."

Two years later the power of granting degrees, thus acquired, was first exercised.

In 1833 the Holy See empowered Georgetown College to confer, in its name, degrees in Philosophy and Theology.

The next step in the development of the College was the erection and equipment of a complete Astronomical Observatory in 1842, and in the following year the formal incorporation of the institution was effected by Congress.

The School of Medicine was opened in 1851, and the School of Law in 1870. The Graduate School was in existence as early as 1856, in which year it comprised four resident graduates. It has continued with varying degrees of success since that time, and in the year 1890 assumed a marked development. The Dental School was opened in 1901.

#### LOCATION AND EXTRINSIC ADVANTAGES

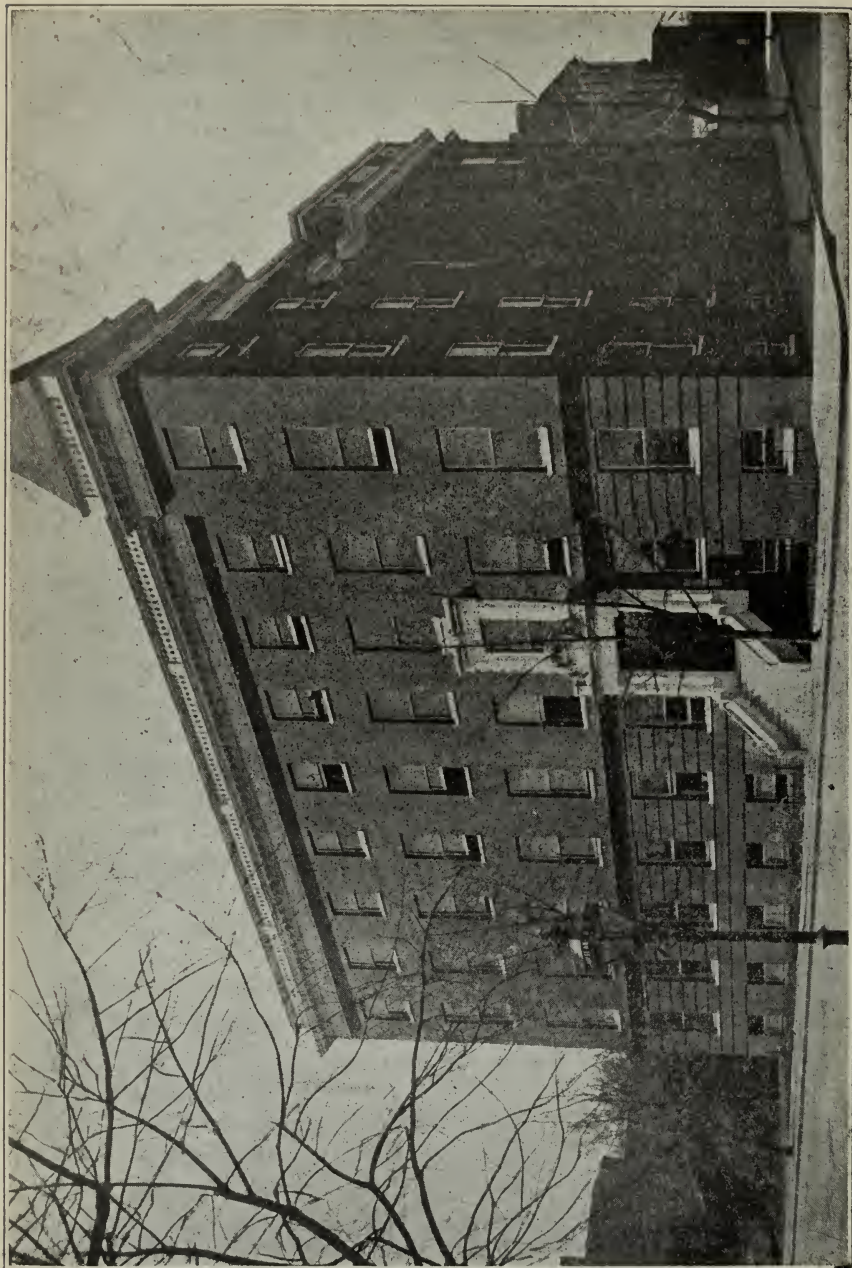
In its location at the Capital of the nation, Georgetown University enjoys advantages which can hardly be over-estimated and which must necessarily increase with the growth of the country. Not only is the city, free as it is from noise, dirt and distracting surroundings of a great commercial center most favorable to the tranquil and earnest pursuit of study, but it has an unparalleled educational equipment in

the great scientific collections and libraries of the Government. According to Mr. Putnam, the Librarian of Congress, there are 34 governmental libraries, containing in the aggregate over two million books and pamphlets and over one-half million of maps, manuscripts, music, and prints, this is a larger proportion of volumes per capita for public use than any other city in the world. By the authority of Congress all such facilities for research and illustration in the Governmental collections are made accessible to the scientific investigators and students of institutions of higher learning in the District of Columbia.

This provision applies to the Library of Congress, the National Museum, the Patent Office, the Bureau of Education, the Bureau of Ethnology, the Army Medical Museum, the Department of Agriculture, the Fish Commission, the Botanical Gardens, the Coast and Geodetic Survey, the Geological Survey, the Naval Observatory, several hospitals and other departments supplied with special libraries, laboratories and equipment for research. The administration of these bureaus brings together a large corps of scientific workers, and has already made Washington the great scientific as well as political center of the country. One consequence of these conditions is that the scientific societies are exceptionally numerous and flourishing. Even the presence of the National Government, with its executive, legislative and judicial machinery, is a most powerful agent of education; to be familiar as a matter of daily observation with the workings of the House of Representatives, the Senate, the Supreme Court and the Administration is a privilege and a training which cannot be too highly prized and which cannot be found elsewhere.

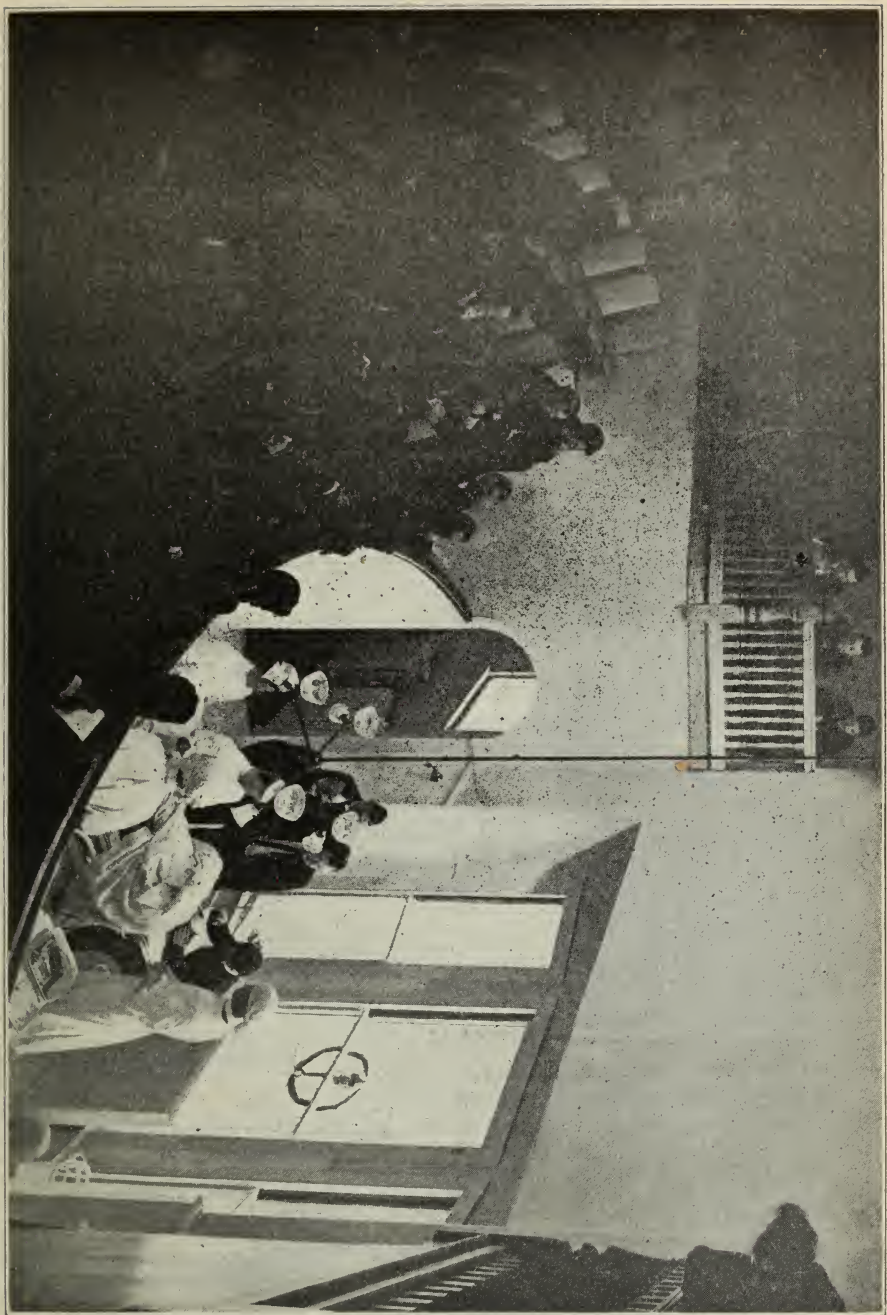
Of all these extrinsic facilities the various Faculties of Georgetown University make full use, and among her instructors are found not a few of the most eminent scholars and scientific men employed in the technical service of the Government. Her students receive the most cordial reception and careful assistance in their work in the various libraries, museums and scientific bureaus.

To the advantages enumerated above is added the atmosphere of study and research engendered by the presence of the many universities of which Washington is rapidly becoming the seat.



Georgetown University Hospital.





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*turer on Pharmacy,*

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Assistant Demonstrator in Histology.	Providence Hospital.
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The following estimate of the expenses of a medical student is based upon actual experience :

	<i>Low.</i>	<i>Average.</i>	<i>Liberal.</i>
Matriculation (once only) .....	5.00	5.00	5.00
Tuition .....	110.00	110.00	110.00
Books .....	15.00	20.00	25.00
Room and Board .....	120.00	165.00	200.00
College incidentals.....	10.00	10.00	10.00
Other expenses, laundry, car fare, etc.....	35.00	50.00	60.00
	295.00	360.00	410.00

Checks should be made payable to the School of Medicine, Georgetown University,

For further information apply to

GEORGE M. KOBER, M. D., Dean.

920 H Street N. W.

Telephone Main 632,

## GEORGETOWN UNIVERSITY HOSPITAL STAFF.

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# For Students of Medicine.

## ANNOUNCEMENT FOR 1904-1905.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Thursday, September 29, 1904, and end on Saturday, May 27, 1905.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction so that more time may be given to practical work in laboratories and hospitals. The instruction will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual, and prepares graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy and Marine Hospital Service. Of 29 applicants for the Army and Marine Hospital Service, since 1898, 28 passed and only one failed.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

Congress during the session of 1901 appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as Assistants during the vacation months in these Laboratories. The new laboratories and hospitals of the Army and the Navy and the Government Hospital for the Insane also offer excellent opportunities for instruction.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student, that are unrivalled in America and are equal, if not superior, to those in most European capitals. These collections are freely open to the public and can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

## LIBRARIES.

The Library of Congress .....	1,100,000 vols.
The Library of the Surgeon-General's Office..	140,539 vols.
The Library of the National Museum .....	16,000 vols.
The Library of the Museum of Hygiene .....	10,500 vols.
The Library of the Bureau of Ethnology ....	5,000 vols.
The Library of the Bureau of Education .....	30,000 vols.
The Library of the Department of Agriculture	25,000 vols

## MUSEUMS, ETC.

The Army Medical Museum.  
 The Museum of Hygiene.  
 The United States National Museum.  
 The Museum of the Agricultural Department.  
 The Botanical Garden.  
 The United States National Zoological Park.

## REQUISITES FOR ADMISSION.

Creditable certificates of good moral character, signed by two physicians of good standing in the State, Territory or District in which the applicant last resided.

As evidence of preliminary education an entrance examination is required. It may be waived if an applicant can show

A) A diploma from a recognized and reputable literary or scientific college granting the degree of A. B. or B. S. or equivalent degree; (B) a diploma from a recognized high school, normal school or academy having a classical course issued after four years of study and requiring for admission evidence of the completion of an eight year course in primary and intermediate schools; (C) a medical student's certificate issued upon examination by any recognized State or District Board of Medical Examiners; (D) a student's certificate of examination for admission to the freshman class of a recognized literary or scientific college; (E) a certificate issued by a board of examiners appointed by the State or District Superintendent of Public Instruction of having passed the minimum standard of preliminary education.

In the absence of such evidence the candidate will be required to pass an examination in the following branches :

A. English—grammar, rhetoric and composition, the equivalent of two years' high school work in this branch.

B. Algebra—to quadratics.

C. Latin—one year of high school work, including grammar and four books of Cæsar, or a full equivalent therefor.

D. Physics—one year of high school work, including some laboratory work.

E. U. S. History—one year of high school work.

Besides the above, seven additional branches of the student's choice selected from the following, each to have been pursued one or more years :

1. Latin—Cæsar, Cicero or Virgil. 2. German—grammar and literature. 3. French—grammar and literature. 4. Chemistry—with laboratory work. 5. Botany. 6. Zoology. 7. Geometry.—plane. 8. Geometry—solid. 9. Trigonometry. 10. Astronomy. 11. Physiology. 12. Physical geography. 13. English literature. 14. Advanced algebra. 15. Civics. 16. General history. 17. Greek. 18. Logic. 19. Psychology. 20. Ethics. 21. Greek and Roman history.

The preliminary examination is not conducted by any person connected with the faculty, medical or otherwise.

A student may be allowed to enter on his medical work conditioned in not more than two branches (one year's work in each), but these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

#### ADVANCED STANDING.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that they are qualified to intelligently avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Thursday, September 29, Friday, September 30, and Saturday, October 1st, 1904, at 2 P. M.

#### METHOD OF INSTRUCTION.

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and by instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction:

**ANATOMY.**

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

**OSTEOLOGY.**

EMORY W. REISINGER, M. D.,

Assistant to the Professor of Anatomy

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like the study of the softer parts is in the dissecting room, and is an indispensable preliminary to that work.

**PRACTICAL ANATOMY.**

EMORY W. REISINGER, M. D.,

Demonstrator.

The dissecting room will be open daily for students, after October 15th, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

**HISTOLOGY.**

R. S. BLACKBURN, M. D.

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to thoroughly cover the subject of animal histology, the human tissues being compared with those of the lower vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearances.





Histological Laboratory.

**EMBRYOLOGY.**

SYLVESTER D. JUDD, B. S., PH. D.

This course will consist of lectures and laboratory work. It will begin with spermatogenesis and ovogenesis, and then taking up the development after fertilization will proceed to the formation of the rudiment of the embryo, and conclude with a consideration of organology.

**PHYSIOLOGY.**

PROFESSOR MURRAY GALT MOTTER, B. S., A. M., M. D.

This course will consist of lectures upon General and Special Physiology, together with recitations, frequent examinations, demonstrations, and laboratory work.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

**MATERIA MEDICA AND THERAPEUTICS.**

PROF. G. LLOYD MAGRUDER, A. M., M. D.;

One of the Consulting Physicians to Providence Hospital, and the Central Dispensary and Emergency Hospital.

Instruction in this Department will extend over the first three years of the medical course.



Students of the second and third year will be instructed in the physiological action and therapeutical use of drugs, and in prescription writing.

#### MATERIA MEDICA.

WILFRED M. BARTON, M. D.

Under this course students of the first year will be taught the appearance and physical properties of the crude drugs and the preparations derived therefrom, illustrated by actual specimens. The elements of pharmacology will also be taught, including the compounding of medicinal substances and preparations, incompatibilities, weights and measures, doses, etc.

#### CHEMISTRY AND TOXICOLOGY.

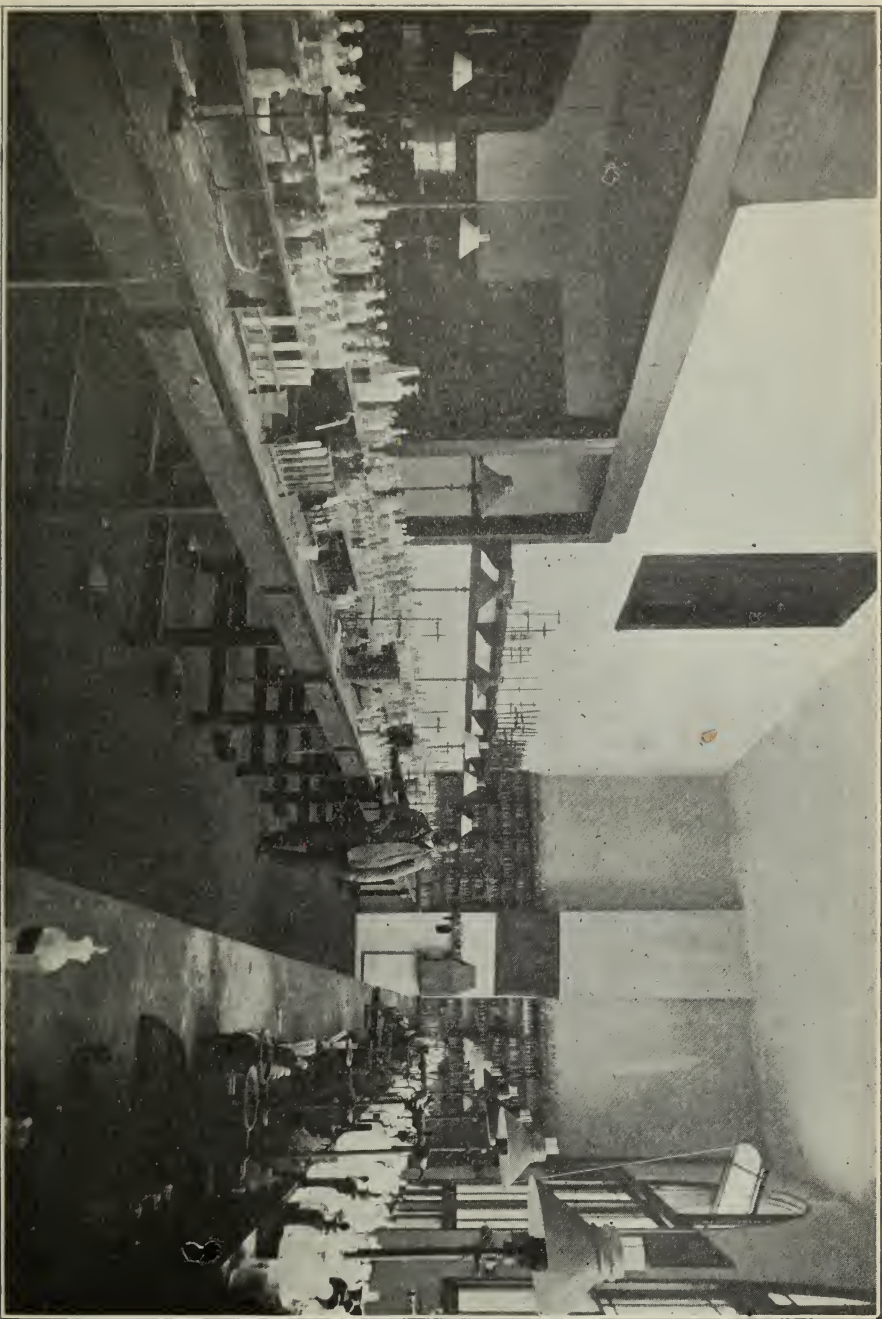
PROF. JOHN D. HIRD, A. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonism is briefly considered, while the evidence of poisoning as furnished by chemical analysis is considered more in detail.



Chemica Laboratory.

**PHYSICS.****JOHN P. DUNNIGAN, A. B., M. D.,**

Instructor in Physics.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

**GENERAL PATHOLOGY AND BACTERIOLOGY.****PROF. EDWIN B. BEHREND, A. B., M. D.**

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second half year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, fæces, gastric contents, sputum, pathological exudates, etc., with especial reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

**SPECIAL PATHOLOGY AND MORBID ANATOMY.****PROF. I. W. BLACKBURN, M. D.**

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to consideration of tumors and morbid growths in general and in connection with special pathology to the pathology of mental diseases, and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes. The course will be supplemented by lectures, demonstrations, and practical necropsy work at the Government Hospital for the Insane.



Physiological Laboratory.

**SURGICAL PATHOLOGY AND MILITARY SURGERY.**

PROF. W. C. BORDEN, M. D., F. R. M. S.,

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital  
Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

**THEORY AND PRACTICE OF MEDICINE AND  
DISEASES OF CHILDREN.**

PROF. SAMUEL S. ADAMS, A. M., M. D.

Attending Physician to Georgetown University and Children's Hospitals, Consulting  
Physician to Government Hospital for Insane.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by the various clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.



## PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.

One of the Attending Surgeons at the Emergency Hospital and Chief Surgeon Georgetown University Hospital Consulting Surgeon Government Hospital for Insane.

The course in surgery extends over two and one-half years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics which are held at the various hospitals and dispensaries, which afford material in abundance.

Students are instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of the principal surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

## OBSTETRICS.

PROF. JOHN F. MORAN, A. B., M. D.

Obstetrician, Georgetown University and Columbia Hospitals.

The course will be graded and will consist of classified lectures, comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which he was required to keep records and present written reports. Every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction. Special attention will be devoted to abdominal palpation, pelvimetry, digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of the forceps, version, etc.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will be urged.

An operative course on the Budin-Pinard manikin will also be given.

## GYNECOLOGY AND ABDOMINAL SURGERY.

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

One of the Consulting Physicians to the Central Dispensary and Emergency Hospital, Consulting Gynecologist to the Woman's Dispensary and the Government Hospital for Insane. Surgeon in Charge of his own Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recita-



tions, and also in small classes at private and public operations, in four different hospitals, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery will receive special attention.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

### OPHTHALMOLOGY AND OTOTOLOGY.

PROF. SWAN M. BURNETT, PH. D., M. D.,

Ophthalmologist and Otolgologist to Georgetown University, Providence and Children's Hospitals, and to the Central Dispensary and Emergency Hospital.

The course begins with lectures on the anatomy of the eye and ear illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and acoustics and the proper methods of examining the eye and ear. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye and ear are wholly clinical, illustrative cases, being taken from Dr. Burnett's extensive service at the Central Dispensary and Emergency Hospital, and at Children's, Providence, and the University Hospitals. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than twelve hundred new cases of eye and ear diseases are treated annually at the Central Dispensary alone. Every important operation on the eye is performed in the presence of each section.

Dr. C. R. Dufour, Demonstrator of Ophthalmology and Otolgology, gives clinical demonstrations twice a week at the Eastern Dispensary and University Hospital.

### PHYSICAL DIAGNOSIS, LARYNGOLOGY, AND RHINOLOGY,

PROF. T. MORRIS MURRAY, M. D.,

Director of the Throat and Chest Clinic Georgetown University Hospital and at the Central Dispensary and Emergency Hospital.

In addition to the didactic lectures on the principles of physical diagnosis, laryngology, and rhinology at the college there will be demonstrations in these branches to the students at Dr. Murray's very large clinic for diseases of the throat, nose and chest at the Central Dispensary and Emergency Hospital. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Murray; thus they will be made familiar with one of the most important branches of medical practice.

### HYGIENE

PROF. GEORGE M. KOBER, M. D.

Consulting Physician to Children's Hospital, Washington Asylum Hospital, Providence Hospital and Central Dispensary and Emergency Hospital.

The course on hygiene will extend over two years and will include lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages,

and condiments, morbid and infected food products; the skin, bath, and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

#### STATE MEDICINE.

PROF. W. C. WOODWARD, M. D., LL. M.

Health Officer District of Columbia.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon students in their fourth year.

#### MEDICAL ZOOLOGY.

PROF. CH. WARDELL STILES, A. M., Ph. D.,

Zoologist United States Bureau of Public Health and Marine Hospital Service, Honorary Custodian of the Helminthological Collection, United States National Museum, Correspondent Etranger de l'Academie de Medecine (Paris).

This course comprises a series of about thirty lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life-history of the different forms, and the best means of treatment and prevention. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for the course, by lantern slides, and exhibitions of specimens. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of fæces, for determining the presence of parasites. An opportunity to carry on original investigation in Medical Zoology, under the direct supervision of Dr. Stiles will be offered to graduates or to advanced students who may desire to pay special attention to this branch.

#### DERMATOLOGY.

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology, etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by plates. A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

#### MENTAL AND NERVOUS DISEASES.

PROF. WILLIAM A. WHITE, M. D.

Superintendent of the Government Hospital for the Insane.

This course will consist of didactic and clinical lectures at the Government Hospital for the Insane, which accommo-

dates about 3,000 patients. Members of the Third and Fourth Classes will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity and diseases of the nervous system which are usually seen in the practice of the general practitioners in medicine.

#### DISEASES OF THE NERVOUS SYSTEM AND ELECTROTHERAPEUTICS.

PROF. D. PERCY HICKLING, M. D.,

Neurologist to the Providence Hospital  
and Physician in charge of Washington Asylum Hospital.

This course is largely clinical, and will embrace those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course on Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures will be amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

#### CLINICAL INSTRUCTION AND ADVANTAGES. GEORGETOWN UNIVERSITY HOSPITAL.

*Corner Thirty-fifth and N Streets N. W.*

Attendance upon clinical instruction is obligatory for students of the third and fourth years.

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics will be given by the following professors of this school and by other members of the Hospital and Dispensary staff in the new amphitheatre, which accommodates over 180 students.

*Surgical.*—Dr. Vaughan.

*Medical.*—Dr. Adams.

*Gynecological.*—Dr. Johnson.

*Diseases of the Eye and Ear.*—Drs. Burnett and Dufour.

*Diseases of the Throat, Chest and Nose.*—Dr. Murray.

*Dermatology.*—Dr. McGuire.

**PROVIDENCE HOSPITAL.**

*Capitol Hill, corner Second and D Streets S.E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government. It contains over four hundred beds. The medical and surgical wards are usually well filled with interesting cases. In the new surgical amphitheater, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Regular Clinics are given by the following Professors:

*Surgical.*—Drs. Bayne, Crook, and Mallan.

*Diseases of the Eye and Ear.*—Dr. Burnett.

*Clinical Medicine.*—Drs. Vincent, Luce, and Marbury.

*Gynecological.*—Dr. Cutlibert.

*Neurological.*—Dr. Hickling.

Drs. Magruder and Kober are on the Consulting Staff.

**CHILDREN'S HOSPITAL,**

*W Street, between Twelfth and Thirteenth Streets N.W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to thoroughly observe and comprehend the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2:30 to 4:30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Burnett and Adams who are on the Staff will give clinical instruction at this hospital. Drs. Johnson and Kober are on the Consulting Staff.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL**

*Fifteenth Street and Ohio Avenue N.W.*

During the last year over 15,000 patients were treated here, and over 1,200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As a large proportion of the serious cases of accidents that occur in the city are first brought to the hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The new building just completed offers greatly improved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery.

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of



practical bacteriology, pathology and Röntgen ray work in association with surgery and medicine. Dr. Wallace Johnson is in charge of pathology in this laboratory. Doctors Johnson, Magruder and Kober are on the Consulting Board.

Regular clinics are given by the following Professors of this school and other members of the staff.

*Surgical*.—Dr. Vaughan.

*Diseases of the Eye and Ear*.—Dr. Burnett.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose*.—Dr. Murray.

*Medical*.—Dr. J. D. Morgan.

### GARFIELD MEMORIAL HOSPITAL,

*Florida Avenue and Tenth Street N.W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical*.—Dr. J. D. Morgan.

*Obstetrical and Gynecological*.—Dr. H. D. Fry.

In all the above Hospitals the positions of Resident and Assistant Resident Physician are open to competitive examination to graduates of this school, who last year secured fifteen out of eighteen available positions.

In addition to the foregoing, clinics will be given by—

Dr. William A. White; *Mental and Nervous Diseases* at Government Hospital for Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Dr. Jno. F. Moran, *Obstetrical*, Columbia Hospital.

Dr. Wm. C. Borden, *Surgical*, U. S. General Hospital, Washington Barracks.

Dr. D. Percy Hickling, *Neurological, Medical and Surgical*, Washington Asylum Hospital.

Dr. Llewellyn Eliot, *Medical*.

### EXAMINATIONS.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics, physiology, and materia medica.

The *Second Class* upon anatomy, physiology, chemistry, urinalysis, therapeutics, bacteriology, pathology, minor surgery and toxicology.

The *Third Class* upon therapeutics, the practice of medicine, surgery, obstetrics, gynecology, general pathology, special pathology and morbid anatomy, medical zoology, surgical pathology and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis,



ophthalmology and otology, hygiene, state medicine, mental diseases, dermatology, electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

#### *Re-examinations.*

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session, and students will not be permitted to advance to higher classes unless their deficiencies of the previous year have been made up. If the student fails upon re-examination in only one study, he will be permitted to progress to the next year on condition that the examination in the study in which he was deficient be passed on or before October 15th of the same year.

Students failing to comply with the foregoing requirements will have to repeat the yearly course for which the examination has been held.

#### REQUIREMENTS FOR GRADUATION.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction, delivered in some recognized medical school, the last of which shall have been delivered in this institution.

#### FEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	110 00
Rent for microscope.....	5 00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to pay all charges for injury to microscopes, apparatus and other college property.

#### FEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs.....	\$20 00
Dissection . . . . .	10 00
Practical chemistry, including chemicals.....	25 00
Didactic and laboratory course in histology, pathology or bacteriology, each.....	25 00
Operative surgery on the cadaver, per course.....	25 00
No graduation fee is required.	

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examinations without previous registration.

A student repeating a course for any reason will be charged full fees for that course.

## DENTAL DEPARTMENT.

## FACULTY.

- REV. JEROME DAUGHERTY, S. J.,  
*President of Georgetown University.*
- SHELDON G. DAVIS, D. D. S.,  
*Vice-President and Professor of Metallurgy, and Crown and Bridge Work.*
- WILLIAM N. COGAN, D. D. S.,  
*Dean of the Faculty, Professor of Dental Technics and Orthodontia.*
- GEORGE M. KOBER, M. D.,  
*Treasurer of the Faculty.*
- F. H. SHULTZ, D. D. S.,  
*Professor of Operative Dentistry.*
- SHIRLEY W. BOWLES, D. D. S.,  
*Professor of Prosthetic Dentistry.*
- M. M. DOLMAGE, D. D. S.,  
*Professor of Dental Pathology and Histology.*
- H. JEROME ALLEN, M. D., D. D. S.,  
*Professor of Dental Medicine.*
- JESSE RAMSBURGH, A. M., M. D.,  
*Professor of Oral Surgery.*
- FRANK BAKER, A. M., M. D., PH. D.,  
*Professor of Anatomy.*
- G. LLOYD MAGRUDER, A. M., M. D.,  
*Professor of Materia Medica and Therapeutics.*
- MURRAY GALT MOTTER, B. S., A. M., M. D.,  
*Professor of Physiology.*
- JOHN D. HIRD, A. M.,  
*Professor of Chemistry and Toxicology.*
- EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology.*



Dental Infirmary

## SPECIAL LECTURERS AND ASSISTANTS.

GEORGE E. HAMILTON, LL. D.,  
*Dental Jurisprudence.*

PAUL W. EVANS, A. B., D. D. S.,  
*Dental Ceramics.*

G. HARRIS WHITE, D. D. S.,  
*Instructor in Metallurgy and Assistant in Dental Histology,*

A. L. GARABEDIAN, D. D. S.,  
*Instructor in Crown and Bridge Work.*

WILFRED M. BARTON, M. D.,  
*Assistant to Chair of Materia Medica and Therapeutics.*

EDWIN R. HODGE, M. D.,  
*Assistant to Chair of Anatomy.*

TRUMAN ABBE, A. B., M. D.,  
*Assistant to Professor of Physiology.*

THOMAS S. LEE, A. B., M. D.,  
*Assistant to Professor of Physiology.*

JOHN P. DUNNIGAN, A. B., M. D.,  
*Instructor in Physics*

## DEMONSTRATORS.

M. M. DOLMAGE, D. D. S.,  
*Superintendent of Laboratories and Clinics.*

G. HARRIS WHITE., D. D. S.,  
*Operative Technics*

J. M. GOMPERTZ, D. D. S.,  
*Operative Dentistry.*

J. A. FERGELL, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*

J. ERNEST SMITH, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*

A. S. WEAVER, D. D. S.,  
*Prosthetic Technics.*

A. L. GARABEDIAN, D. D. S.,  
*Prosthetic Dentistry.*

A. J. KLEBERG, D. D. S.,  
*Assistant Demonstrator of Prosthetic Dentistry.*

## CLINICAL STAFF.

W. W. EVANS, M. D., D. D. S., Washington, D. C.

ROBERT E. L. WILTBERGER, D. D. S., Washington, D. C.

J. CURTISS SMITHE, D. D. S., Washington, D. C.

B. HOLLY SMITH, M. D., D. D. S., Baltimore, Md.

CYRUS M. GINGRICH, D. D. S., Baltimore, Md.



### REQUISITES FOR ADMISSION.

The Dental Department conforms to the rules and regulations of the National Association of Dental Faculties, of which it is a member, as well as to those of the National Association of Dental Examiners.

In accordance with these regulations, a preliminary examination, equivalent to a certificate of entrance into the third year of a high school, is required as a condition of admission. This will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course, finally passed in recognized institutions.

Those presenting certificates of examination from other reputable dental colleges of equal requirements will be admitted to the respective higher class without further examination.

The preliminary examinations will be held at the college building on Thursday, September 29, Friday, September 30, and Saturday, October 1st, and the regular session will begin Monday, October 3d, 1904, and end May 31, 1905.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless they have been prevented by sickness, which must be vouched for by the certificate of a reputable practicing physician. In that case the date of admission shall not be later than twenty days from the opening day.

Students must continue in attendance until the close of the session in order to obtain credit for a full term.

### METHODS OF INSTRUCTION.

The course of instruction will consist of didactic lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instruction. The number of students taken in each class allows each member to come into close contact with the professors, and insures the most thorough individual instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begins with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.



THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating-rooms* unequaled in point of lighting, heating, and conveniences. They are furnished with all the requirements of such apartments. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anesthetics, for the extraction of teeth; also one for taking impressions, occlusions, and doing work requiring the use of plaster or wax. The preparation and administration of sulphuric ether and nitrous oxide during the session familiarizes students with these valuable agents.

There is also a department of Oral Surgery attached to the Georgetown University Hospital, where students have the privilege of witnessing all the operations pertaining to cleft palate, hare-lip, fractured maxilla, empyema of antrum, etc. Both infirmaries are under the immediate and continuous direction of a corps of competent demonstrators, who are always present to instruct and assist the students in their work. In the departments the student is taught the art of operative and prosthetic dentistry. The press of patients is very great, and the opportunities for practice unequaled. The student not only witnesses every kind of dental manipulation as practiced by the experienced, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session, and, indeed, is considered as the only factor essential to becoming a competent dental practitioner.

Each student is expected to provide his own instruments—a list of which may be obtained on application to the demonstrator in charge—with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

The operating-rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each day during the session.

#### CURRICULUM.

The instruction embraces a graded course of four years, each course followed by examinations thereon.

Punctual attendance upon the lectures and clinics is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study:

## FIRST YEAR.

	Lectures and Recitations.	Laboratory.
Anatomy,	4 hours	As assigned.
Osteology,	2 hours for 3 mos.	
Histology General and dental)		4 hours.
Materia Medica	2 hours.	1 hour.
Chemistry,	3 hrs. for 3 mos.	3 hrs for 3 1-2 mos.
Physics,	1 hour.	
Operative Technics,	1 hour.	12 hours.
Prosthetic Technics	1 hour.	12 hours.

## SECOND YEAR.

Anatomy	4 hours.	As assigned.
Physiology,	3 hours.	
Therapeutics,	3 hours.	
Chemistry,	3 hours for 3 mos.	3 hrs for 3 mos
Bacteriology,		12 hrs for 2 mos.
Operative Dentistry	2 hours	2 hours.
Prosthetic Dentistry	2 hours	2 hours.
Infirmary Practice		12 hours.

## THIRD YEAR.

Physiology,	3 hours.	
General Pathology,	2 hours.	
Oral Surgery,	2 hours.	
Dental Pathology,	1 hour.	1 hour.
Prosthetic Dentistry	2 hours.	2 hours.
Operative Dentistry	2 hours.	2 hours.
Infirmary Practice,		24 hours.

## FOURTH YEAR.

Orthodontia,	1 hour.	1 hour.
Clinical Dentistry,	1 hour.	2 hours.
Dental Medicine,	1 hour.	
Oral Surgery,	2 hours.	
Ethics, Jurisprudence	1 hour.	
Metallurgy,	1 hour.	
Infirmary Practice,		30 hours.

## COURSE OF STUDY.

## METALLURGY AND CROWN AND BRIDGE WORK.

PROF. SHELDON G. DAVIS, D.D. S.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by both didactic and clinical instruction, as well as special demonstrations in difficult cases.

Careful attention will be paid to the chemistry of metals and all the materials used in Dentistry.

## ORAL PROSTHESIS.

PROF. SHIRLEY W. BOWLES, D. D. S.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: the prepara-

tion and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect articulations, the methods of constructing the different bases used for dentures, and the construction and application of obturators.

Æsthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

#### DENTAL CERAMICS.

PAUL W. EVANS, A. B., D. D. S.

A special course of instruction in Dental Ceramics is arranged for the graduating class. The college is provided with a large electric furnace, and porcelain inlays and crown and bridge work, together with continuous gum work, will receive special attention

#### OPERATIVE DENTISTRY.

PROF. FRANK H. SHULTZ, D. D. S.

The lectures from the chair of operative dentistry present the means and methods in use for the preservation of the natural teeth, together with the principles which form the basis of practice, including a description of instruments and their uses, also appliances and materials used in operating; the treatment and preparation of cavities; the methods of filling with various forms of gold and plastic materials. A special feature of instruction from this chair will be practical demonstrations in the mouth, in the infirmary, before the entire class.

#### ORAL SURGERY.

PROF. JESSE RAMSBURGH, A. M., M. D.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis, and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

#### DENTAL TECHNICS AND ORTHODONTIA.

PROF. W. N. COGAN, D. D. S.

This course while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observa-

tion, enabling the student to become familiar with the forms and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the human subject.

The treatment of irregularities of the dental arch require great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

#### DENTAL HISTOLOGY AND PATHOLOGY.

PROF. M. M. DOLMAGE, D. D. S.

The lectures on Dental Pathology include such portions of general pathology as are of special interest to the dental student.

A detailed consideration is given of all the diseases of the teeth and surrounding parts; normal and abnormal character of oral secretions; dentition and its pathological results. The treatment necessary under each head is minutely detailed.

The lectures on Histology include the comparative anatomy and the development of the teeth, and their component tissues and the functions of dental organs.

#### DENTAL MEDICINE.

PROF. H. JEROME ALLEN, M. D., D. D. S.,

The lectures in this course will embrace a discussion of all drugs used in dentistry. Their preparation, physiological effect, therapeutic action, and dental uses will be emphasized by this chair.

The administration of nitrous oxide and the use of local anæsthetics will also be dwelt upon from a dental standpoint.

#### ANATOMY.

PROF. FRANK BAKER, M. D., PH. D.

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention will be given to the descriptive anatomy of the head, face, neck, and oral cavity.

For Histology and Osteology see page 25.

The demonstrator of practical anatomy will have charge of the class in the dissecting-room, where dissecting material will be supplied in abundance.

#### PHYSIOLOGY.

PROF. MURRAY GALT MOTTER, B. S., A. M., M. D.

One of the features of the progress and development of modern Dentistry is its closer association with the wider field of General Medicine through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a

fuller knowledge of the whole organism, in order that he may, the more intelligently, deal with that part of it which is his more immediate province. To this end, the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while their practical application will be pointed out in lectures, recitations, and practical demonstrations.

#### MATERIA MEDICA AND THERAPEUTICS.

PROF. G. LLOYD MAGRUDER, A. M., M. D.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contraindications to their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

#### CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the vital chemistry of anesthetics, and the special chemistry of the mouth, the stomach, and intestinal tube will be fully treated.

#### PHYSICS.

JOHN P. DUNNIGAN, A. B., M. D.

A course in the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

#### PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical and embrace full laboratory teaching of the most important subjects of these studies.

#### GRADUATION.

At the close of the fourth year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions:

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in



all the branches of the curriculum; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

The examinations are conducted orally and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the *Dental Infirmary* must be exhibited to the professor of Operative Dentistry, and such other specimen work as he may require; also an approved specimen of dental mechanism constructed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

#### FEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year .....	100 00
Rent for microscope .....	5.00

Charge will be made for breakage in laboratories.

A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1 ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

The expenses of a student during the eight months, including tuition, books, board and lodging, laundry and other incidentals need not exceed \$275.00, and \$350.00 will be a liberal allowance.

For further information apply in person or by letter to

WILLIAM N. COGAN, D. D. S., *Dean*,  
920 H Street N. W., Washington, D. C.

# MEDICAL DEPARTMENT.

## MATRICULATES 1903-1904.

Acker, Albert E.....	District of Columbia.
Adams, Roy D.....	District of Columbia.
Apperious, Samuel H.....	Alabama.
Ashford, Mahlon.....	District of Columbia.
Barry, Joseph F.....	New York.
Barton, F. R.....	Novia Scotia.
Bastion, J. Edward.....	Massachusetts.
Bayly, Rozier C.....	District of Columbia.
Beistle, Matthew J.....	Michigan.
Berdel, William Jean.....	New York.
Bernstein, Hyman.....	District of Columbia.
Blaine, Robert G. ....	District of Columbia.
Blackistone, J. G.....	District of Columbia.
Boland, Martin.....	Massachusetts.
Breckinridge, Scott D.....	District of Columbia.
Brennan, John E.....	Connecticut.
Briscoe, John P.....	Maryland.
Burgess, Walter M. S.....	Virginia.
Burke, Fred B.....	Michigan.
Byrnes, Bernard L.....	New York.
Carey, Joseph S.....	Pennsylvania.
Carney, Patrick J.....	Massachusetts.
Carroll, J. Edward.....	Massachusetts.
Casey, William B.....	Connecticut.
Coleman, David C.....	Massachusetts.
Collins, Joseph H.....	Pennsylvania.
Connole, John F.....	Pennsylvania.
Connor, John E.....	Massachusetts.
Constas, John.....	Greece.
Cooney, Martin J.....	Massachusetts.
Conlin, Charles F.....	Massachusetts.
Cotter, Timothy F.....	Massachusetts.
Coyle, William E.....	Connecticut.
Craig, A. E.....	District of Columbia.
Cramer, Herman.....	Massachusetts.
Davis, Ezra M.....	South Carolina.
De Vanny, David A.....	New York.
Devlin, Joseph A.....	New York.
Dougherty, Gerald.....	Delaware.
Drennan, Lawrence.....	Virginia.
Dunn, Robert D.....	Rhode Island.
Efford, William.....	Newfoundland.
Esch, Victor H.....	District of Columbia.
Foote, John A.....	Pennsylvania.
Frey, Joseph L.....	New York.
Gannon, James A.....	District of Columbia.

Gill, S. J.....	Virginia.
Green, Robert J.....	District of Columbia.
Griffith, Charles L.....	District of Columbia.
Hahn, William L.....	Indiana.
Hamilton, Ralph A.....	District of Columbia.
Harrison, W. B.....	Mississippi.
Hayden, Daniel B.....	Illinois.
Hayden, Reynolds.....	District of Columbia.
Healey, Charles B.....	Massachusetts.
Hemler, William Francis.....	Pennsylvania.
Hermesch, Henry Robert.....	Indiana.
Hesch, Frank C.....	Pennsylvania.
Hilton, James F.....	District of Columbia.
Hough, William H.....	Virginia.
Hunter, W. Myers.....	North Carolina.
Jarboe, J. Parren.....	Maryland.
Johnson, Paul B.....	District of Columbia.
Jones, George W.....	District of Columbia.
Kelleher, J. Edward.....	Massachusetts.
Kaveney, Joseph J.....	Massachusetts.
Kearney, James I.....	Pennsylvania.
Kennedy, William J.....	West Virginia.
Kenney, Thomas H.....	Massachusetts.
Kirby, William P.....	District of Columbia.
Kett, Michael C.....	Colorado.
Light, Given A.....	Pennsylvania.
Linnehan, George A.....	Massachusetts.
Litzinger, Raymond W.....	Pennsylvania.
McCallum, Charles W. J.....	New York.
McCormick, John J.....	Massachusetts.
McGarrell, John J.....	West Virginia.
Magovern, Harry A.....	New York.
Maloney, John Martin.....	Massachusetts.
Manion, William T.....	New York.
Monahan, John M.....	Kentucky.
Mulholland, Bernard J.....	Massachusetts.
Mulvanity, Albert F.....	New Hampshire.
Murphy, Daniel J.....	Massachusetts.
Murrin, Joseph S.....	Pennsylvania.
Nolan, Lawrence P.....	District of Columbia.
Nunez, Manuel Y.....	Peru.
Nussa, Rafael Lopez.....	Porto Rico.
O'Hara, Francis J.....	Massachusetts.
O'Hara, James F.....	Pennsylvania.
Oleson, Robert H.....	District of Columbia.
Pargon, Joseph A.....	New York.
Pearson, John M.....	District of Columbia.
Polar, Charles A.....	Peru.
Potter, J. Albert.....	New York.
Powell, Walter R.....	District of Columbia.
Powers, E. Parnell.....	Massachusetts.

Quigley, Francis L.....	Kansas.
Quinn, James H.....	Massachusetts.
Ready, Michael J.....	District of Columbia.
Regan, John T.....	Massachusetts.
Reidt, Urban H.....	Pennsylvania.
Reilly, J. Victor.....	New York.
Reynard, Walter A.....	New York.
Rivera, Pedro P.....	San German, Porto Rico
Romaine, Frank W.....	District of Columbia.
Rogers, William E.....	Virginia.
Sacks, Samuel.....	District of Columbia.
Schneider, Elwin C.....	Virginia.
Schreiber, Henry R.....	District of Columbia.
Shanley, T. J.....	North Dakota.
Sharp, De Haven.....	District of Columbia.
Shea, Michael I.....	Massachusetts.
Sheehan, Dennis J.....	Vermont.
Sheridan, Charles R.....	Maryland.
Sheridan, Frank J.....	District of Columbia.
Short, Francis J.....	New York.
Short, William H.....	New York.
Simpson, C. Augustus.....	Virginia.
Smith, William M.....	District of Columbia.
Stillwagen, E. L.....	Pennsylvania.
Straub, John A.....	Pennsylvania.
Sullivan, James F.....	Rhode Island.
Sullivan, Robert Y.....	District of Columbia.
Sullivan, Timothy J.....	Massachusetts.
Sult, C. W.....	Virginia.
Sweeney, Michael T.....	Massachusetts.
Swetnam, Chas. R. K.....	Virginia.
Swetnam, Ford H.....	Virginia.
Taylor, Edgar C.....	Louisiana.
Thomson, Lewis B.....	Maryland.
Thornton, John Joseph.....	West Virginia.
Titus, Stanley H.....	Washington.
Tobin, Richard F.....	District of Columbia.
Verbrycke, J. R. jr.....	District of Columbia.
Wahler, Joseph P.....	District of Columbia.
Wollenberg, Robert A. C.....	Michigan.
Walter, Frank J.....	District of Columbia.
Watson, John W.....	District of Columbia.
Welch, Thomas F.....	Massachusetts.
Willson, Prentiss.....	District of Columbia.

## DENTAL DEPARTMENT.

## First Year.

Harris, Ephraim G.....Maryland.  
 Hatton, Peter J.....Massachusetts.  
 McNamara, George V.....Massachusetts.  
 Pardee, Edmund.....New York.  
 Schaake, Frederick.....Massachusetts.

## Second Year.

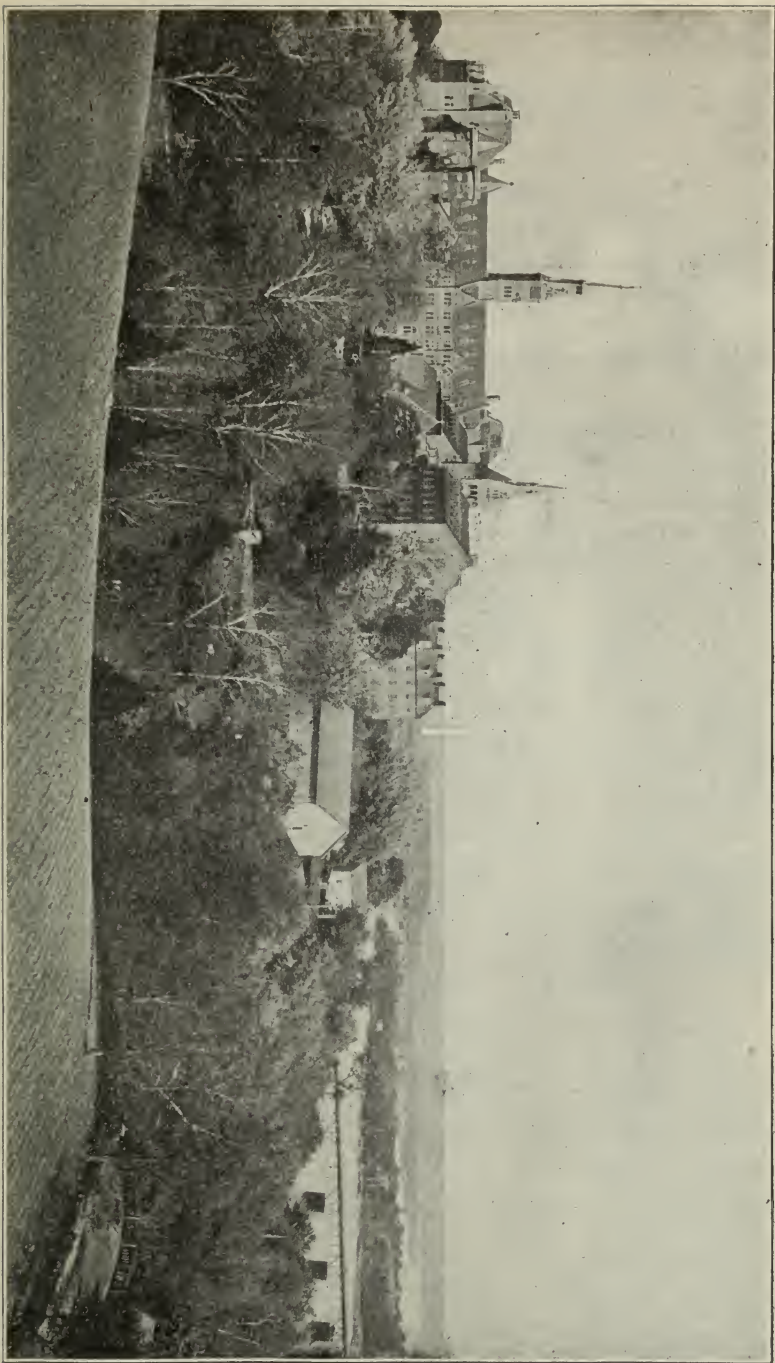
Cassell, Leonard .....Illinois.  
 Hart, James H.....Massachusetts.  
 \*McCarthy, John A.....Massachusetts.  
 \*Rivera, Nestor.....Porto Rico.

## Third Year.

Bradley, H. A.....Michigan.  
 Conigisky, J. P.....Illinois.  
 Connors, George R.....Rhode Island.  
 Dorman, J. A.....Iowa.  
 Griffin, John J.....Massachusetts.  
 Mulhearn, Richard F.....Rhode Island.  
 McConnell, Frank S.....District of Columbia.  
 Regan, R. B.....District of Columbia.  
 Reilly, J. A.....Massachusetts.

\*Not in constant attendance.





VIEW FROM OBSERVATORY HILL.

## THE ACADEMIC DEPARTMENT.

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### THE COLLEGE AND SURROUNDINGS.

Georgetown College is situated on Georgetown Heights, two and one-half miles distant from the Capitol, overlooking the city of Washington and the Potomac River, and commanding one of the noblest views in the world. The site is singularly healthful, and the climate exceptionally soft and mild.

The College buildings are seven in number, exclusive of the Observatory, and present an aggregate frontage of about eight hundred feet. They are surrounded by grounds comprising seventy-eight acres, a large part of which is occupied by the "Walks," whose sylvan beauty has made them famous.

### ACCOMMODATIONS.

A considerable number of single rooms in the main building are rented to students of the Collegiate classes. Those whose means or inclinations do not lead them to take a private room, sleep in the dormitories and study in the general study hall. The dormitories are spacious and lofty, well ventilated and heated.

The double rooms of the North building are reserved for graduate students. None but graduates are allowed to board outside of the Collegiate premises, unless with immediate relatives.

### GENERAL CONSPECTUS OF STUDIES.

The course of studies at Georgetown is carefully and logically graded throughout.

The aim of the course is to give the student a complete general and liberal education, which will train and develop all powers of the mind and will cultivate no one faculty to an exaggerated degree at the expense of the others. It is intended too, to impart the broadest possible culture, together with accuracy in scholarship. To attain this end during the Undergraduate period the course is prescribed, and embraces the Latin and Greek Classics, English, in its various branches and aspects and correlated studies, such as Rhetoric, Litera-

ture, History, etc., one Modern Language besides English, Mathematics, Chemistry, the Elements of Geology, Astronomy, and Mechanics, and a very thorough training in Physics and Rational Philosophy .

The exacting and comprehensive nature of this course may fitly form a subject for comment. It is believed that its requirements are seldom equalled, even in the larger colleges of the country. As an indication of the labor demanded for the successful completion of the course, it may be stated that the amount of time spent in class by all the students varies from twenty-two to twenty-five hours weekly. To prepare for these classes and recitations, obligatory study for about twenty-three hours per week is exacted. Moreover, students who aim at a high standing spend much time in study in addition to that which is of obligation.

It is presumed that a man of fair capacity who has conscientiously followed this curriculum under capable professors will be possessed of trained and cultivated faculties, and will have considerable amount of positive knowledge in every department of learning. He will be thus in touch and intelligent sympathy with progress in every field of intellectual activity, and be saved as far as possible from narrowness and superficiality. Such an education serves, it is believed, as the best foundation for special training in any branch which the student, with his mind now mature and disciplined, may decide to take up. Those who are unable or unwilling to undergo the amount of labor and application necessary to the mastery of the full curriculum will be obliged to go elsewhere.

#### METHOD OF INSTRUCTION.

One of the most essential necessities for success in educational work is the possession of natural, thorough and effective methods of teaching. It is necessary, too, that these methods should be uniform in spirit throughout the school, employed equally by all the teachers under whom the student may come. In this respect Georgetown enjoys peculiar advantages. Her teaching is guided by the principles laid down in the famous Ratio Studiorum. This body of rules and suggestions has been elaborated by centuries of experience, and has been judged worthy of attentive study and hearty ap-

probation by the greatest scholars. It is a noteworthy fact that many of the recently-devised methods of teaching, such as the Natural, the Inductive, and similar plans, are in reality mere repetitions of the devices recommended long ago in the *Ratio Studiorum* and practiced with varying degrees of fidelity in the colleges of the Society of Jesus.

#### DEPARTMENT OF PHYSICS.

Special attention is called to the facilities for scientific work offered by the College. The Physics Department is one of the largest and best appointed in the University. To its use an entire floor in the east wing of the south row is devoted. The lecture-room, enjoying a southern exposure, is particularly pleasant and lightsome, and has ample facilities for projection, both by light from the sun and the electric arc. The laboratory is well provided with instruments necessary for a careful training in physical experiment and measurements, especially in electricity, while the collection of instruments in the cabinet numbers several hundred and is carefully selected for thorough demonstration of the Principles of Physics. Among them are included such instruments as Melloni's apparatus for the study of heat radiation, complete sets of single and double refracting prisims, polariscopes, both refracting and reflecting; the most improved forms of galvanometers and rheostats. The department is provided with its own electrical plant, a 3 H. P. motor on a 500 volt circuit being used to drive an Edison bipolar generator of 1 1-2 kilowatts. In addition to this direct current, the lecture-room is also provided with a single-phase alternating current of 104 volts, so that electricity in its various forms is constantly before the student and subject to his command for experiments of the most practical character. The collection of Crookes's tubes is very complete, including some of the best forms for the generation of the Roentgen ray.

#### CHEMICAL DEPARTMENT.

The work in this department is of a very practical character in accordance with the almost unanimous views of modern educators. From the very beginning of his course, each student is obliged to perform personally the greater part of his experimenting, thus supplementing by scientific training the didactic instruction of his literary classes. To meet the demands of such a course, the College has provided three



large, well-lighted laboratories in the main building. Each desk is fitted with drawers and locker, and independent drainage and water and gas supply, while all necessary chemicals and apparatus are at hand. The lecture-room is very well equipped with special instruments for purposes of demonstration. A private laboratory is available for advanced students pursuing quantitative analysis or organic chemistry. All the laboratories are open to members of the chemistry classes during hours of recreation.

#### DEPARTMENT OF BIOLOGY.

In this Department much progress has been made. A very fine ornithological collection has been acquired, and arranged according to the most modern system of classification. The shell collection is very satisfactory, and there is also a sufficiently large herbarium. Twelve good microscopes of the Bausch and Lomb type are in service, and a series of biological charts by Leuckart and a fair variety of skeletons are in service. However, much is still needed, especially since the recent introduction of biological teaching into the Preparatory School in the way of anatomical and physiological models, botanical charts, and mounted preparations in general biology.

#### FEES AND EXPENSES.

##### Regular Charges.

BOARDERS: Tuition, Board, Lodging, Washing and  
Mending of Linen for the Scholastic

Year .....	\$450 00
Medical Aid and Medicines.....	10 00
Library Fee.....	2 00

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\$462 00

\$231.00 payable invariably in advance at the beginning of every half-year. A deposit must also be made, sufficient for books and other incidental expenses. This need not exceed \$20.

HALF BOARDERS: Tuition yearly.....	\$150 00
Luncheon at the College, yearly....	50 00
Library Fee.....	2 00

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\$202 00



DAY SCHOLARS: Tuition, yearly.....	\$150 00
Library Fee.....	2 00
	<hr/>
	\$152 00

In the Sophomore year there is a charge of \$10 per annum for the use of chemicals.

In the Senior year there is a charge of \$10 for the use of philosophical and astronomical instruments.

Graduation Fee..... \$10 00

Private room (if desired), with heat, light and attendance, per annum.....\$80 00

The year opens usually on the first day of October, and closes with the annual commencement of the College in the latter part of June. It is divided into the fall, winter and spring terms.

For further information apply to REV. JEROME DAUGHERTY, S. J., Georgetown College, Washington, D. C.

## GRADUATE SCHOOL.

In the various departments of the Graduate School of Georgetown University provision is made for those college graduates who desire to continue their education in the Arts and Sciences. Some, in accordance with the best spirit of the age, seek these literary and scientific resources from a love of true learning, whilst others have in view a more complete preparation for the professions in which there is a call for general knowledge. It is the object of this vital part of the University to satisfy all such demands in the fullest and most liberal manner.

The courses, if pursued to the full extent recommended, are ample enough to tax the energies of any student. It is, therefore, more satisfactory to devote an entire year to them before entering upon the study of Law or Medicine, which the University also provides. Yet the minimum of work exacted is not too much to be profitably combined with the required attention to purely professional studies.

### ADMISSION.

All graduates of Georgetown College, as also graduates of institutions of like standing, are admissible to these courses.

## RESIDENCE.

Students devoting themselves to Graduate work only at the College may reside within the College walls or not, as may suit their convenience. Those attending the Schools of Law or Medicine are expected to live outside of the College; and if desired, good boarding places, where reasonable rates are charged, will be secured for them.

The classes in the Graduate courses are conducted in the halls at Georgetown, from 9 A. M. to 12 M. Those in Biology, partly at Georgetown on certain evenings, and partly in the Medical College in the afternoon.

## TERM TIME.

The year opens usually on the first day of October, and closes with the annual commencement of the College in the latter part of June. It is divided into the fall, winter, and spring terms.

## STUDIES.

A brief schedule of courses offered in the various branches will be found subjoined. Class work is carried on by lectures, directions in reading, and intimate personal and practical guidance on the part of the professor; and on the side of the student, by repetitions, review and practice papers, and the preparation of theses. The aim is to surround the Graduate student with every facility for advanced work, and every incitement to original investigation; in a word, to foster in him the spirit and habits of the scientist and scholar.

Every student must select at least three courses involving attendance upon lectures for eight hours a week. One of these courses must be Rational Philosophy. In the case of applicants for the degree of Master of Sciences, Rational Philosophy is optional, but must be replaced both as to study and examination by specialization in some branch of the Natural Sciences.

## AIDS TO STUDY.

Graduate students have the privilege of consulting their professors outside the regular class hours. Under the direction of the respective lecturers, they have the use of the Riggs Memorial Library, the Cabinet of Physics, the Physical, Biological, and Chemical Laboratories of the College, and the Scientific collections of the Coleman Museum.

The Graduates' Library of Philosophy and Literature, a choice collection intended for the seminar and reference, and

already comprising some thousands of volumes, is placed in the old library of the North Building, occupied by the resident Graduates, and is accessible at all times as a study. The Morris Literary and Debating Society is organized for Graduate, Law, and Medical Students.

#### DEGREES.

The Master's degree in Arts and the same degree in Science, will be given to those already holding the corresponding Bachelor's degree, on the completion of one year of residence, with attendance upon lectures, presentation of papers, and satisfactory examinations, as specified above.

For the degree of Licentiate in Philosophy, two years of graduate work, one of which at least must be spent in residence, will be required. The additional conditions are: an hour's oral examination and the writing of a satisfactory paper on a subject in Psychology or Sociology selected by the professor.

The degree of Doctor of Philosophy will be conferred after three years of graduate work, two of which must be spent in residence. The candidate must pass a final examination, present a thesis bearing upon his special department of study, and convince the committee appointed by the Faculty of his distinguished merit to receive this degree.

The condition of residence may be waived in certain special cases where evidence of eminent fitness is submitted by the candidate. In such cases, candidates must file an application at the beginning of October of the academic year in which they wish to take the degree, specifying the degrees they hold, the line of work they intend to pursue, and the title and scope of the thesis they propose to submit. The special examination will be exacted in every case.

#### FEES AND EXPENSES.

The fee for tuition is \$100 for the entire course of instruction. The charge for room, board and washing at the College is \$400 for the year.

For further information apply to REV. JEROME DAUGHERTY, S. J., President, Georgetown University, Washington, D. C.

GEORGETOWN UNIVERSITY,  
SCHOOL OF LAW.  
1904-1905.

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The next term of this institution opens Wednesday evening, October 5th, 1904, at 6:30 o'clock, in the Georgetown University Law Building, 506 and 508 E Street N.W., in the city of Washington. All persons interested are invited to attend the introductory lecture, which will then be delivered. The collegiate year closes on the first of June.

ADVANTAGES.

Of the great advantages offered by a Law School over the unassisted reading of a student in a law office there can be no question. Here, however, the experiment has been successfully made of uniting the advantages of the two. The lectures are held in the evening, and, so far as practicable, students who put themselves into timely communication with the Secretary are connected with the offices of the ablest lawyers of the city, where they are allowed to familiarize themselves with the conduct of business and the practical duties of the profession.

The holding of the lectures and other exercises in the evening also enables clerks in the various departments of the Government, and other persons who are engaged during the day, to avail themselves of the privileges of the School.

The site of the institution, at the Capital of the Nation, presents advantages for the study of American jurisprudence which are unequaled elsewhere, and must always remain so.

The Law Library at the United States Capitol contains over 100,000 volumes, embracing all the noted treatises, reports and periodicals, ancient and modern, American, English and of the nations of Continental Europe. By the operation of the copyright law and the outlay of an annual appropriation it is constantly enriched with new acquisitions, and it is believed to be kept in a state of completeness unrivaled

among the law libraries of the world. This magnificent collection is freely open to students seven hours daily.

Congress, the Court of Claims, the Supreme Court of the United States, and the Court of Appeals of the District of Columbia are in session during several months of each school year, and, with the Executive Departments, especially the Patent, Pension, and General Land Offices, furnish advantages for professional study nowhere else enjoyed.

The Supreme Court of the District of Columbia has the common law, equity, criminal and probate jurisdiction of a State Court in the States, besides that of the Circuit and District Courts of the United States. Its sessions afford the student opportunities for hearing the forensic arguments and forming the acquaintance of the leaders of the American Bar from all parts of the Union, besides thoroughly familiarizing himself with the practice of these various courts.

#### COST OF BOARDING, ETC.

There is no boarding department connected with the Law School. The majority of the law students board in Washington City, where the Law School is located, and where the cost of comfortable lodging, board, fuel and gas varies from \$20 to \$30 per month, according to the location and appointments selected. Satisfactory accommodation can easily be had at \$25 per month; and there are every year students who provide for themselves comfortably at a cost of \$20 per month, and even less. Tuition is \$100 per annum, with no incidental charges except a diploma fee of \$10 upon graduation. Cost of text-books is about \$30 per annum. The Law School Session is from the first Wednesday in October to the first Wednesday in June—about eight months. The necessary expense for board, lodging, tuition, books, etc., per annum, is, therefore, about \$350, exclusive, of course, of clothing and general incidental expenses.

#### STUDENTS.

Students desiring to become members of the School enter their names upon the Secretary's register, at or before the opening of the term in October. Candidates for a degree must have received a high school education, or its equivalent, evidence of which must be presented or a preliminary examination will be required.



Candidates for advanced standing—*i. e.*, those desiring to complete the Course in one or two years—must, at the time of entry, present certificates of previous study at some approved Law School, or under the direction of a reputable practitioner. Such certificate must show, moreover, that the candidate has passed a satisfactory examination upon the subjects embraced in the First, or First and Second Years, as the case may be, otherwise an examination will be necessary before he can enter an advanced Class. This examination will always be required of those whose study has been carried on under the direction of a practitioner.

#### COURSE OF STUDY.

The regular curriculum will cover a period of three years, divided into a First, Second and Third Year. Upon the successful completion of the Three Years' Course the student will be entitled to receive the degree of Bachelor of Laws.

Students in the Second Year are required to attend the Lectures and be examined upon Part 2 of the studies of the First Year, as indicated below; and students in the Third Year are, in like manner, required to attend the lectures and be examined upon the studies of Part 2 of the Second Year.

Regular and punctual attendance on the part of the student is required, as also preparation for thorough recitations in class daily, *and delinquency in either particular will be deemed a sufficient cause for refusing to grant a degree.*

Candidates for a degree must have been in regular attendance for at least one year, and must pass a satisfactory examination on the entire year's course of study.

The following is the course of study pursued in the Law School:

FIRST YEAR:—Part 1. *Personal Property, Elementary Law, Torts, Domestic Relations, Criminal Law and Negotiable Instruments.*

Part 2. *Contracts and Real Estate.*

SECOND YEAR:—Part 1. *Subjects of Part 2 of the First Year's Course.*

Part 2. *Pleading, Evidence and Equity.*

Part 3. *Insurance, Agency and Partnership.*

THIRD YEAR:—Part 1. *Subjects of Part 2 of the Second Year's Course.*

Part 2. *Corporations, Common Law Practice, Equity Pleading and Practice, Constitutional Law, the Law of Wills and Municipal Corporations.*

Special attention is given to the subject of "Equity Pleading and Practice," on account of the fact that not only is this the practice used in all Federal Courts, but also because nearly all the Codes of Practice, adopted by the several States are founded thereon.

#### FOURTH YEAR OR POST-GRADUATE COURSE.

Students who have completed the foregoing three years course, and holders of the degree of Bachelor of Laws, will, upon the successful completion of this course, be entitled to receive the degree of Master of Laws.

For further information apply to

S. M. YEATMAN,

*Secretary and Treasurer.*

*Address* Georgetown University Law Building.

506-508 E Street, N. W.,

Washington, D. C.

## TEXT-BOOKS AND WORKS OF REFERENCE.

The latest editions should always be procured:

*Practice of Medicine*.—Tyson; Osler; Wood and Fitz; French; Anders; Jakob; Eichhorst; W. Gilman Thompson.

*Surgery*.—Vaughan's Principles and Practice of Surgery; American Text-Book of Surgery; International Text-Book of Surgery; Beckham, Operative Surgery; Dennis' System of Surgery; Park; Warren's Surgical Pathology; Keyes' Genito-Urinary Diseases; Morton's Genito-Urinary Diseases; White and Martin's Genito-Urinary Diseases.

*Obstetrics*.—Lusk; Jewett; Hirst; Williams; American Text-Book of Obstetrics; Edgar; Webster; Garrigues.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Anatomy*.—Cunningham, Morris or Quain; Heath's Dissector.

*Physiology*.—American Text-Book; Huxley-Lee.

*Chemistry*.—Remsen; Roscoe; Harris' Qualitative Analysis; Purdy, Tyson or Whipple on Urine; Witthaus' and Becker's Toxicology. Tanner on Poisons.

*Materia Medica*.—Cushny; Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood; Hare; Potter.

*Medical Jurisprudence*.—Reese; Taylor; Tidy.

*Hygiene*.—Harrington; Parkes; Egbert.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

*Ophthalmology*.—May; de Schweinitz; Jackson; Astigmatism, by Swan M. Burnett; American System of Ophthalmology, Otology, and Laryngology; Suter's Handbook of Optics; Exposition of Principles of Refraction—Burnett.

*Otology*.—Politzer; Dench.

*Larynology and Rhinology*.—Mackenzie; Knight; Bosworth; Shirley.

*Physical Diagnosis*.—Loomis; Vierordt; Hare; Tyson.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Stengel; Lazarus—Barlow.

*Bacteriology*.—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland.

*Nervous Diseases*.—Nervous and Mental Diseases—Church and Peterson; Text-Book on Nervous Diseases—Dana; Organic Nervous Diseases—Starr; Section on Nervous Diseases in Osler's Practice of Medicine.

*Mental Diseases*.—Practical Manual of Insanity—Brower and Banister; Nervous and Mental Diseases—Church and Peterson; Mental Diseases—Berkley; Practical Manual of Mental Medicine—Régis; Clinical Psychiatry—Defendorf; Reference Handbook of the Medical Sciences, article on Insanity.

*Electro-Therapeutics*.—Hadley; Marsey; Bigelow.

*Embryology*.—Heisler; Marshall; Hertwig.

*Parasites*.—Neumann; Braun.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclopædia; Taylor and Wells; Koplik.

*Dermatology*.—Hyde; Kaposi; Jackson.

## Text-Books and Books of Reference.

The latest editions should always be procured ;

*Operative Dentistry*.—Kirk's American Text-Book of Operative Dentistry ; C. L. Johnson's Operative Dentistry ; The American System of Dentistry, edited by Litch. Weeks' Manual of Operative Technics.

*Prosthetic Dentistry*.—American Text-Book of Prosthetic Dentistry ; Richardson's Mechanical Dentistry. Kingsley's Oral Deformities. Warren's Compend of Dental Prosthesis and Metallurgy. Guilford's Orthodontia. Goslee's Principles of Crown and Bridge Work.

*Oral Surgery*.—Marshall's Surgical Injuries and Diseases of the Face, Mouth, and Jaws ; McCurdy's Oral Surgery ; Syllabus by the Professor of this branch.

*Anatomy*.—Cunningham, Morris or Quain ; Heath's Dissector ; Broomell's Anatomy and Histology of the Mouth and Teeth ; Black's Dental Anatomy.

*Bacteriology*.—Frankel ; Sternberg ; Levy and Klemperer ; Abbott ; McFarland. Miller's Micro-organisms of the Human Teeth.

*Pathology*.—Ziegler ; Green ; Delafield and Prudden ; Woodhead ; Stengel ; Burchard's Dental Pathology and Therapeutics ; Bodecker's Anatomy and Pathology of the Teeth ; Barrett's Oral Pathology and Practice.

*Histology*.—Stöhr ; Schäfer's Essentials ; Stirling ; Piersol ; Böhm and von Davidoff ; Hubers' and Broomell's Anatomy and Histology of the Mouth and Teeth.

*Physiology*.—American Text-Book ; Huxley-Lee.

*Chemistry*.—Remsen ; Roscoe ; Harris' Qualitative Analysis ; Purdy, Tyson or Whipple on Urine ; Wittlaus' and Becker's Toxicology. Tanner on Poisons ; Mitchell's Dental Chemistry and Metallurgy.

*Materia Medica*.—Cushny ; Culbreth ; Sayre ; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood ; Hare ; Potter ; Gorgas' Dental Medicine.

*Physics*.—Gage's Elementary and Draper's Medical Physics.



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1905/06

UNIVERSITY OF ILLINOIS

SECOND SERIES.

PRESIDENT'S OFFICE. No. 1.

# Georgetown University Publication

BULLETIN

OF THE

## SCHOOL OF MEDICINE

AND

## DENTAL DEPARTMENT

ANNOUNCEMENT FOR THE SESSION OF

1905-1906



WASHINGTON, D. C.

PUBLISHED BY GEORGETOWN UNIVERSITY.

QUARTERLY.

[APRIL TO JUNE, 1905]

*Entered May 6th, 1904, at Washington, D. C., as second class  
matter under act of Congress of July 16, 1894.*



## Calendar for 1905-1906.

1905.

SEPT. 28, 29 and 30—Examinations for admission and re-examinations every day at 2 P. M.

OCT. 2—Lectures begin at 1:30 P. M.

NOV. 30, DEC. 1 and 2—Thanksgiving Holidays.

DEC. 22—Christmas recess begins at 5 P. M.

1906.

JAN. 3—Lectures resumed.

FEB. 22—Legal Holiday.

APRIL 11—Easter recess begins at 5 P. M.

APRIL 18—Lectures resumed.

MAY 21—Lecture course completed.

MAY 23—Examinations begin.

JUNE 13—Commencement.

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## The Post-Graduate Medical School.

Believing that the National Capital presents many special advantages for graduate medical instruction, the leading members of the profession in Washington city have organized a Post-Graduate Medical School. The course of instruction will consist principally of clinics at the different hospitals of the city and of practical laboratory work. Didactic lectures will also be given during the regular course upon such branches as Preventive Medicine, Military Medicine and Surgery, Preventive Inoculations, Serum Therapy, whenever a sufficient number of students apply for such a course.

General George M. Sternberg, U. S. A., has been elected president of the faculty, and the Surgeon-Generals of the Army, Navy, Public Health, and Marine Hospital Service are members of the executive committee.

It is believed that the course of instruction will be especially valuable for the general practitioner and for those who intend to practice surgery, gynecology, ophthalmology, laryngology, or some other specialty. The special attention given to Preventive Medicine, to Tropical diseases, and to laboratory work in Bacteriology and Sanitary Chemistry will afford health officers and physicians who desire to enter one of the branches of the Governmental or Colonial service unusual advantages for perfecting themselves in the scientific studies which must serve as a foundation for their practical work.

Applicants for clinical and laboratory instruction may matriculate at any time. Circulars containing full information will be sent upon application to the secretary, DR. GEORGE M. KOBER, 920 H Street, N. W., Washington, D. C.

## GEORGETOWN UNIVERSITY.

### Educational Advantages of Washington.

Georgetown University, in the city of Washington, was chartered by Congress March 1st, 1815, and consists of the following departments:

DEPARTMENT OF ARTS AND SCIENCES.

[Undergraduate and Graduate.]

THE ASTRONOMICAL OBSERVATORY.

SCHOOL OF MEDICINE.

[Undergraduate and Graduate.]

GEORGE M. KOBER, M. D., Dean, 920 H street N. W.

DEPARTMENT OF DENTISTRY.

WILLIAM N. COGAN, D.D.S., Dean, 920 H street N. W.

SCHOOL OF LAW.

[Undergraduate and Graduate.]

HON. HARRY M. CLABAUGH, LL. D., Dean, 506-508 E street, Washington, D. C.

Each School or Department is under the direction of its own Dean, and each Faculty has the power of legislating on its own affairs, but this power can be exercised only in subordination to the President and Directors of the University, and subject to their approval.

### History.

The foundation of Georgetown College was projected as early as the year 1785, when the Rev. John Carroll, afterwards the first Archbishop of Baltimore, formed the plan and proposed it to his associates. On November 13, 1786, the Corporation of Roman Catholic Clergymen, in the Chapter held at Whitmarsh, Md., adopted a series of "Resolves Concerning the Institution of a School," in which it ordered that a School should be erected at Georgetown, Md., and directed the sale of a piece of land belonging to the corporation, in order that the proceeds might be applied to the erection of the first building. Rev. Messrs. John Carroll, James Pellenz, Robert Molyneux, John Ashton, and Leonard Neale were appointed Directors.

Shortly afterwards an appeal was issued, entitled "Proposals to Establish an Academy at Georgetown, Potowmack River, Maryland." In this circular it was stated that "Agreeably to the liberal Principle of our Constitution, the Seminary will be open to students of Every Religious Profession." In 1788 the erection of the first building was undertaken; yet 1789 is com-

UNIVERSITY OF ILLINOIS  
PRESIDENT'S OFFICE

monly considered the year of the foundation of the College, as the deed of the original piece of ground was dated January 23 in that year. Students were not received before 1791. Upon the reorganization of the Society of Jesus in Maryland, in 1805, the Georgetown College, as it had already begun to be called, was transferred to the Fathers of that Society, under whose control and direction the University still remains.

An act of Congress, dated March 1, 1815, reads as follows:

"AN ACT

"CONCERNING THE COLLEGE OF GEORGETOWN IN THE DISTRICT OF COLUMBIA:

"Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled, That it shall and may be lawful for such persons as now are, or from time to time may be, the President and Directors of the College of Georgetown, within the District of Columbia, to admit any of the students belonging to said College, or other persons meriting academical honors, to any degree in the faculties, arts, sciences, and liberal professions, to which persons are usually admitted in other Colleges or Universities of the United States; and to issue in an appropriate form the diplomas or certificates which may be requisite to testify to the admission to such degree.

"LANGDON CHEEVES,

*"Speaker of the House of Representatives.*

"JOHN GAILLARD,

*"President pro tempore of the Senate.*

"Approved March 1, 1815.

"JAMES MADISON."

Two years later the power of granting degrees, thus acquired, was first exercised.

In 1833 the Holy See empowered Georgetown College to confer, in its name, degrees in Philosophy and Theology.

The next step in the development of the College was the erection and equipment of a complete Astronomical Observatory in 1842, and in the following year the formal incorporation of the institution was effected by Congress.

The School of Medicine was opened in 1851, and the School of Law in 1870. The Graduate School was in existence as early as 1856, in which year it comprised four resident graduates. It has continued with varying degrees of success since that time, and in the year 1890 assumed a marked development. The Dental School was opened in 1901.

### Location and Extrinsic Advantages.

In its location at the Capital of the nation, Georgetown University enjoys advantages which can hardly be overestimated, and which must necessarily increase with the growth of the country. Not only is the city, free as it is from noise, dirt and

distracting surroundings of a great commercial center, most favorable to the tranquil and earnest pursuit of study, but it has an unparalleled educational equipment in the great scientific collections and libraries of the Government. According to Mr. Putnam, the Librarian of Congress, there are 34 governmental libraries, containing in the aggregate over two million books and pamphlets and over one-half million of maps, manuscripts, music, and prints; this is a larger proportion of volumes per capita for public use than any other city in the world. By the authority of Congress all such facilities for research and illustration in the Governmental collections are made accessible to the scientific investigators and students of institutions of higher learning in the District of Columbia.

This provision applies to the Library of Congress, the National Museum, the Patent Office, the Bureau of Education, the Bureau of Ethnology, the Army Medical Museum, the Department of Agriculture, the Fish Commission, the Botanical Gardens, the Coast and Geodetic Survey, the Geological Survey, the Naval Observatory, several hospitals and other departments supplied with special libraries, laboratories and equipment for research. The administration of these bureaus brings together a large corps of scientific workers, and has already made Washington the great scientific as well as political center of the country. One consequence of these conditions is that the scientific societies are exceptionally numerous and flourishing. Even the presence of the National Government, with its executive, legislative and judicial machinery, is a most powerful agent of education; to be familiar as a matter of daily observation with the workings of the House of Representatives, the Senate, the Supreme Court and the Administration is a privilege and a training which cannot be too highly prized and which cannot be found elsewhere.

Of all these extrinsic facilities the various Faculties of Georgetown University make full use, and among her instructors are found not a few of the most eminent scholars and scientific men employed in the technical service of the Government. Her students receive the most cordial reception and careful assistance in their work in the various libraries, museums and scientific bureaus.

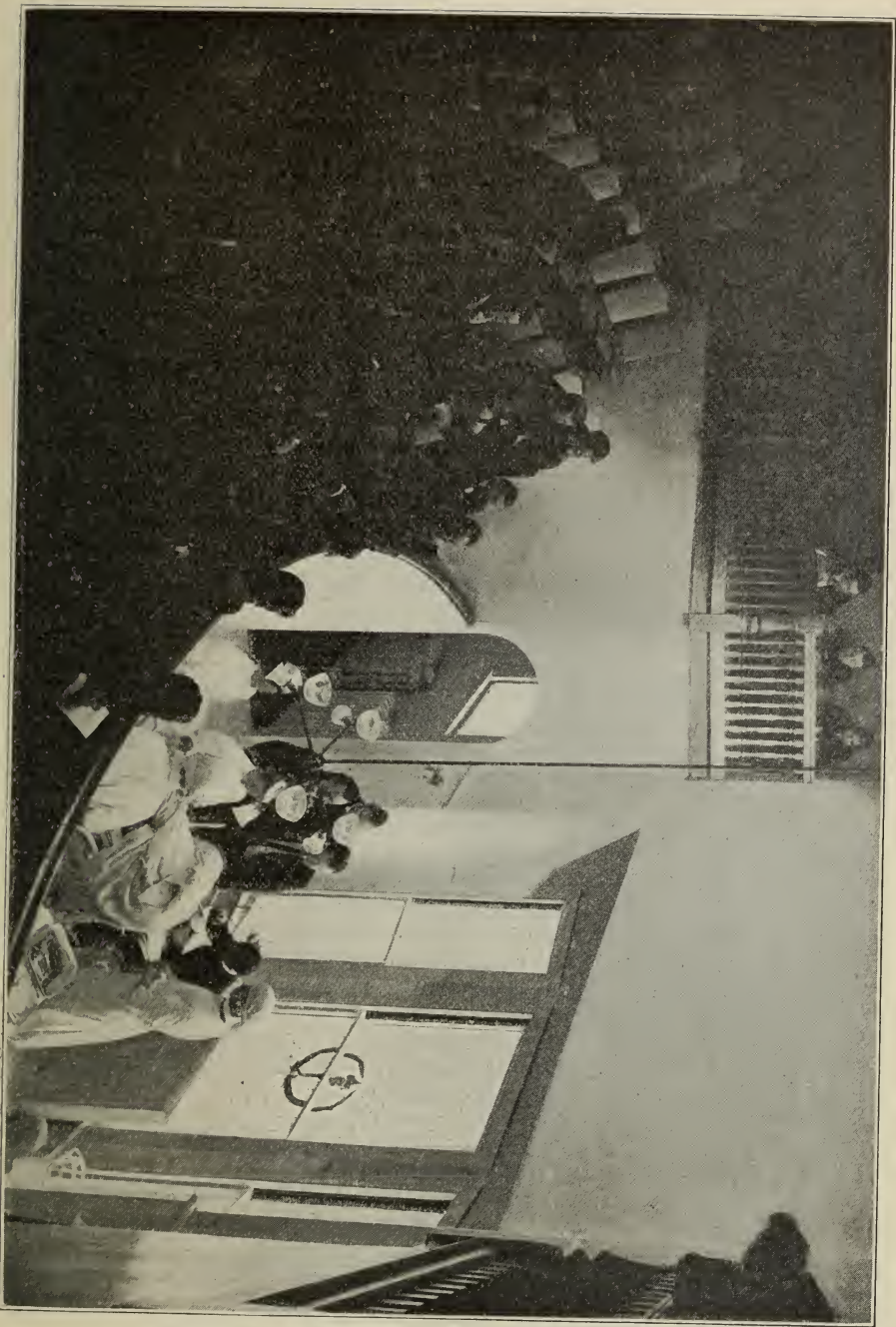
To the advantages enumerated above is added the atmosphere of study and research engendered by the presence of the many universities of which Washington is rapidly becoming the seat.





Georgetown University Hospital





University Hospital Operating Amphitheatre

## SCHOOL OF MEDICINE.

## Faculty.

REV. JEROME DAUGHERTY, S. J.,  
*President of Georgetown University.*

JOSEPH TABER JOHNSON, A. M., M. D., PH. D.,  
*Professor of Gynecology and Abdominal Surgery; Vice-President of  
 the Faculty,*

926 Seventeenth Street.

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*Professor of Hygiene; Dean and Treasurer of the Faculty,*  
 1600 T Street.

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 3048 N Street.

FRANK BAKER, A. M., M. D., PH. D.,  
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 1728 Columbia Road.

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*Professor of Materia Medica and Therapeutics,*  
 4 Jackson Place.

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*Professor of Principles and Practice of Surgery,*  
 1718 I Street.

SAMUEL S. ADAMS, A. M., M. D.,  
*Professor of Theory and Practice of Medicine and Diseases of Children,*  
 1 Dupont Circle.

SWAN M. BURNETT, M. D., PH. D.,  
*Professor of Ophthalmology and Otology,*  
 916 Seventeenth Street.

T. MORRIS MURRAY, M. D.,  
*Professor of Physical Diagnosis, Laryngology and Rhinology,*  
 2107 Massachusetts Avenue.

JOHN D. HIRD, A. M.,  
*Professor of Chemistry and Toxicology,*  
 305 T Street, N. E.

JOHN F. MORAN, A. B., M. D.,  
*Professor of Obstetrics,*  
 2426 Pennsylvania Avenue.

MURRAY GALT MOTTER, B. S., A. M., M. D.,  
*Professor of Physiology,*  
 1815 Belmont Avenue.

W. C. BORDEN, M. D., U. S. A.,  
*Professor of Surgical Pathology and Military Surgery,*  
 Washington Barracks.

I. W. BLACKBURN, M. D.,  
*Professor of Special Pathology and Morbid Anatomy,*  
 Government Hospital for the Insane.

- CH. WARDELL STILES, A. M., PH. D.,  
*Professor of Medical Zoology,*  
 Public Health Laboratory, Twenty-third and E Streets, N. W.
- J. C. MCGUIRE, A. M., M. D.,  
*Professor of Dermatology,*  
 1725 H Street.
- EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology,*  
 1214 K Street.
- W. C. WOODWARD, M. D., LL. M.,  
*Professor of State Medicine,*  
 508 I Street.
- WILLIAM A. WHITE, M. D.,  
*Professor of Mental and Nervous Diseases,*  
 Government Hospital for the Insane.
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*Professor of Clinical Surgery,*  
 1149 Connecticut Avenue.
- HARRISON CROOK, M. D.,  
*Professor of Clinical Surgery,*  
 Fifteenth and L Streets.
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*Professor of Clinical Gynecology,*  
 1462 Rhode Island Avenue.
- I. S. STONE, M. D.,  
*Professor of Clinical Gynecology,*  
 1449 Rhode Island Avenue.
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 919 Fifteenth Street.
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 820 Connecticut Avenue.
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 1304 Rhode Island Avenue.
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 1106 P Street, N. W.
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 1121 Fourteenth Street, N. W.
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*Instructor in Ophthalmology and Otology,*  
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 1133 Fourteenth Street, N. W.
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*Assistant to Professor of Theory and Practice of Medicine and Diseases*  
*of Children,*  
 1603 Nineteenth Street, N. W.
- WM. GERRY MORGAN, M. D.,  
*Assistant to Professor of Theory and Practice of Medicine and of*  
*Diseases of Children,*  
 1417 Rhode Island Avenue.
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 1335 Corcoran Street.
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*Assistant to Professor of General Pathology,*  
 1228 Fourteenth Street, N. W.
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*Demonstrator of General Pathology and Bacteriology,*  
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*Lecturer on Pharmacy,*  
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*of Surgery,*  
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*Instructor in Histology,*  
 2026 P Street, N. W.
- LOREN B. T. JOHNSON, M. D.,  
*Assistant to Professor of the Theory and Practice of Medicine and*  
*Diseases of Children,*  
 924 Seventeenth Street.
- FRANCIS S. MACHEN, M. D.,  
*Demonstrator of Obstetrics,*  
 1336 Harvard Street.
- WM. H. FOX, M. D.,  
*Clinical Demonstrator in Ophthalmology,*  
 1138 Connecticut Avenue.
- JOHN B. MULLIN, M. D.,  
*Clinical Demonstrator of Laryngology and Rhinology,*  
 1341 Rhode Island Avenue.

F. C. WALSH, M. D.,  
*Clinical Demonstrator in Genito-Urinary Diseases,*  
Dockon Building.

EDWIN M. HASBROUCK, M. D.,  
*Prosecutor of Anatomy and Assistant Demonstrator.*  
1819 Adams Mill Road.

A. L. HOWARD, M. D.,  
*Assistant Demonstrator of Anatomy,*  
124 S Street.

F. L. BISCOE, M. D.,  
*Assistant Demonstrator in Anatomy and Pathology.*  
The Farragut.

JOHN P. DUNNIGAN, A. B., M. D.,  
*Assistant Demonstrator in Histology,*  
214 Second Street, S. E.

THOMAS F. LOWE, A. B., M. D.,  
*Assistant Demonstrator in Anatomy and Histology,*  
205 H Street, N. E.

LEON E. STORY, M. D.,  
*Assistant Demonstrator in Histology and Pathology and Bacteriology,*  
1328 Maryland Avenue, N. E.

R. A. WARNER, M. D.,  
*Assistant Demonstrator in Histology,*  
100 B Street, N. E.

W. P. REEVES, M. D.,  
*Assistant Demonstrator in Medical Chemistry,*  
210 Delaware Avenue, N. E.

JOHN J. REPETTI, M. D.,  
*Assistant Demonstrator in Medical Chemistry,*  
404 C Street, S. E.

THOMAS S. LEE, A. B., M. D.,  
*Assistant to the Professor of Physiology,*  
1315 Connecticut Avenue.

ALFRED RICHARDS, M. D.  
*Assistant Demonstrator in Anatomy,*  
312 South Capitol Street.

ARTHUR W. MACNAMEE, M. D.,  
*Assistant Demonstrator of Pathology and Bacteriology,*  
938 Rhode Island Avenue.

RALPH A. HAMILTON, M. D.,  
*Assistant Demonstrator of Pathology and Bacteriology,*  
924 Fifteenth Street, N. W.

ANDREW J. MCINTYRE, M. D.,  
*Assistant Demonstrator in Anatomy,*  
1513 Thirty-fifth Street, N. W.

FRANCIS H. MCQUILLAN, M. D.,  
*Assistant Demonstrator in Anatomy,*  
Providence Hospital.

EDWIN C. HUNTER, M. D.,  
*Assistant Demonstrator in Anatomy,*  
Providence Hospital.



J. J. KAVENEY, M. D.,  
*Assistant Demonstrator in Anatomy,*  
 Naval Hospital.  
 M. L. TURNER, M. D.,  
*Assistant Demonstrator in Anatomy.*  
 ROBERT L. LYNCH, M. D.,  
*Assistant to the Professor of Chemistry,*  
 2930 Fourteenth Street, N. W.  
 JOHN B. BRIGGS, B. S., M. D.,  
*Assistant to the Professor of Physiology,*  
 818 Seventeenth Street, N. W.  
 ROY D. ADAMS, M. D.,  
*Instructor in Embryology,*  
 926 Seventeenth Street, N. W.  
 MAHLON ASHFORD, M. D.,  
*Instructor in Physics,*  
 1763 P Street, N. W.

### Special Lecturers.

P. A. LOVERING, M. D.,  
 Medical Director U. S. Navy,  
*Tropical Diseases.*  
 JOSEPH J. KINYOUN, PH. D., M. D.,  
 Philadelphia, Pa.,  
*Immunity, Serum—Therapy and Preventive Inoculations.*  
 EDWARD L. KEYES, JR., PH. D., M. D.,  
 New York,  
*Diseases of the Genito-Urinary Organs.*

### Expenses of Students.

The following estimate of the expenses of a medical student is based upon actual experience:

	<i>Low.</i>	<i>Average.</i>	<i>Liberal.</i>
Matriculation (once only) .....	\$5.00	\$5.00	\$5.00
Tuition .....	110.00	110.00	110.00
Books .....	15.00	20.00	25.00
Room and Board .....	120.00	165.00	200.00
College incidentals .....	10.00	10.00	10.00
Other expenses, laundry, car fare, etc. ....	35.00	50.00	60.00
	<hr/> \$295.00	<hr/> \$360.00	<hr/> \$410.00

Checks should be made payable to the School of Medicine, Georgetown University.

For further information apply to

GEORGE M. KOBER, M. D., *Dean,*  
 920 H Street N. W.

Telephone Main 632.

H. B. MERRITT, *Curator.*

## GEORGETOWN UNIVERSITY HOSPITAL STAFF.

### Department of Medicine.

PROFESSOR SAMUEL S. ADAMS, M. D., Chief.  
PROFESSOR J. DUDLEY MORGAN, M. D., Associate.  
JOHN D. THOMAS, M. D., Associate.  
EDWIN B. BEHREND, M. D., Associate.  
WM. GERRY MORGAN, M. D., Associate.  
LOREN B. T. JOHNSON, M. D., Assistant.

### Department of Surgery

PROFESSOR GEORGE T. VAUGHAN, M. D., Chief  
PROFESSOR HARRISON CROOK, M. D., Associate.  
M. D'ARCY MAGEE, M. D., Assistant.  
WILLIAM C. GWYNN, M. D., Assistant.  
JOHN A. O'DONOGHUE, M. D., Assistant.  
FRANCIS S. MACHEN, M. D., Assistant.  
TRUMAN ABBE, M. D., Assistant.  
F. C. WALSH, M. D., Assistant.  
ANDREW J. MCINTYRE, M. D., Assistant.  
JESSE RAMSBURGH, M. D., Oral Surgeon, Dental Department.

### Department of Gynecology and Abdominal Surgery.

PROFESSOR JOSEPH TABER JOHNSON, M. D., Chief.  
I. S. STONE, M. D., Associate.  
W. SINCLAIR BOWEN, M. D., Associate.  
THOMAS F. LOWE, M. D., Assistant.

### Department of Obstetrics.

PROFESSOR JOHN F. MORAN, M. D., Chief.  
FRANCIS S. MACHEN, M. D., Assistant.

### Department of Ophthalmology and Otology.

PROFESSOR SWAN M. BURNETT, M. D., Chief.  
C. R. DUFOUR, M. D., Associate.

### Department of Laryngology and Rhinology.

PROFESSOR T. MORRIS MURRAY, M. D., Chief.  
WALTER A. WELLS, M. D., Assistant.

### Department of Dermatology.

PROFESSOR J. C. MCGUIRE, M. D., Chief.

### Department of Pathology.

PROFESSOR EDWIN B. BEHREND, M. D., Chief.  
JOHN A. O'DONOGHUE, M. D., Assistant.

### Resident Physicians.

ROY D. ADAMS, M. D.  
MAHLON ASHFORD, M. D.

## FOR STUDENTS OF MEDICINE.

### Announcement for 1905-1906.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Thursday, September 28, 1905, and end on Saturday, May 28, 1906.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction so that more time may be given to practical work in laboratories and hospitals. The instruction will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual, and prepares graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy and Marine Hospital Service. Of 29 applicants for the Army, Navy and Marine Hospital Service, since 1898, 28 passed, and only one failed.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

Congress during the session of 1901 appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as Assistants during the vacation months in these Laboratories. The new laboratories and hospitals of the Army and Navy and the Government Hospital for the Insane also offer excellent opportunities for instruction.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student that are unrivalled in America, and are equal, if not

## Requisites for Admission.

The following changes have been made necessary by the adoption of a new constitution for the Association of American Medical Colleges:

### ARTICLE III.

SECTION 1. Every college holding membership in this Association shall demand of each student, as a minimum requirement for admission to the medical course:

(a) A bachelor's degree from an approved college or university.

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign language, of which one must be Latin; two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches:

A. Required (18 points); Mathematics (4 points); English (4 points); History (2 points); Language (two must be Latin, 4 points); Science (taken from physics, chemistry, botany, zoology), 4 points.

B. Optional (to 12 points); English, 2 points, History, 6 points; Language, 6 points; Manual Training, 2 points; Mechanical Drawing, 1 point; Natural Science (botany, biology, zoology), 2 points; Physical Science (chemistry, physics), 2 points; Trigonometry, 1 point; Astronomy (1), Civics (1), Geology (1), Physical Geography (1), Physiology and Hygiene (1), Political Economy (1).

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned, or by any State board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

SEC. 2. This examination must be conducted by or under the authority of the superintendent of public instruction of the city or State in which the college is located. In no case shall it be conducted by any

person connected with the faculty, medical or otherwise, of the institution to which the student is seeking admission.

SEC. 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

SEC. 4. Colleges in membership in this Association may honor the official credentials presented by students from other colleges having the standard requirements maintained by members of this Association, excepting for the fourth year of their course; but no member of this Association shall admit a student to advanced standing without first communicating with the college from which such student desires to withdraw and receiving from the dean of such college a direct written communication certifying to the applicant's professional and moral qualifications and to the exact work he has done in said college.

SEC. 5. Candidates for the degree of Doctor of Medicine shall have attended four courses of study in four calendar years, each annual course to have been of not less than thirty teaching weeks' duration, and at least ten months shall intervene between the beginning of any course and the beginning of the preceding course.

SEC. 6. Credit may be given to the holder of a Bachelor's Degree from an approved college or university for any work in the medical branches which he has successfully completed in his college course only so far as it is the full equivalent of corresponding work in the medical curriculum. The holder of such Bachelor's Degree may also be given time credits of not exceeding one year, provided that such student has had at least 40 hours in physics, 144 hours in chemistry, 24 hours in osteology, 292 hours in human or comparative anatomy, 124 hours in histology, 85 hours in embryology, 145 hours in physiology, and 46 hours in materia medica, provided that the applicant for such time credits satisfies the professors of the chairs mentioned in the medical school as to his proficiency in these first-year medical studies, or satisfies the examiner, as provided for in Section 2, Article III, that his studies for which the degree was conferred include the above requirements. Such student may be allowed to complete a course for the medical degree in not less than 31 months, provided he completes the remainder of the medical curriculum in that time.

SEC. 8. Each student shall be obliged to attend 80 per cent. of the exercises in every annual course of study for which he seeks credit. No student shall be given credit on examination unless he attains a grade of at least 70 per cent., or its equivalent in any other marking system. And no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.



superior, to those in most European capitals. These collections are freely open to the public, and can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

#### LIBRARIES.

The Library of Congress .....	1,100,000 vols.
The Library of the Surgeon-General's Office..	140,539 vols.
The Library of the National Museum.....	16,000 vols.
The Library of the Museum of Hygiene.....	10,500 vols.
The Library of the Bureau of Ethnology.....	5,000 vols.
The Library of the Bureau of Education.....	30,000 vols.
The Library of the Department of Agriculture	25,000 vols.

#### MUSEUMS, ETC.

The Army Medical Museum.  
 The Museum of Hygiene.  
 The United States National Museum.  
 The Museum of the Agricultural Department.  
 The Botanical Garden.  
 The United States National Zoological Park.

### Requisites for Admission.

Creditable certificates of good moral character, signed by two physicians of good standing in the State, Territory or District in which the applicant last resided.

As evidence of preliminary education an entrance examination is required. It may be waived if an applicant can show :

(a) A diploma from a recognized and reputable literary or scientific college granting the degree of A. B. or B. S. or equivalent degree; (b) a diploma from a recognized high school, normal school or academy having a classical course issued after four years of study and requiring for admission evidence of the completion of an eight-year course in primary and intermediate schools; (c) a medical student's certificate issued upon examination by any recognized State or District Board of Medical Examiners; (d) a student's certificate of examination for admission to the freshman class of a recognized literary or scientific college; (e) a certificate issued by a board of examiners appointed by the State or District Superintendent of Public Instruction of having passed the minimum standard of preliminary education.

In the absence of such evidence the candidate will be required to pass an examination in the following branches :

a. English—Grammar, rhetoric and composition, the equivalent of two years' high school work in this branch.

b. Algebra—To quadratics.

c. Latin—One year of high school work, including grammar and four books of Cæsar, or a full equivalent therefor.

d. Physics—One year of high school work, including some laboratory work.

e. U. S. History—One year of high school work.

Besides the above, seven additional branches of the student's choice selected from the following, each to have been pursued one or more years:

1. Latin—Cæsar, Cicero or Virgil. 2. German—Grammar and literature. 3. French—Grammar and literature. 4. Chemistry—With laboratory work. 5. Botany. 6. Zoology. 7. Geometry—Plane. 8. Geometry—Solid. 9. Trigonometry. 10. Astronomy. 11. Physiology. 12. Physical geography. 13. English literature. 14. Advanced algebra. 15. Civics. 16. General history. 17. Greek. 18. Logic. 19. Psychology. 20. Ethics. 21. Greek and Roman history.

The preliminary examination is conducted by some person not connected with the faculty, medical or otherwise.

A student may be allowed to enter on his medical work conditioned in not more than two branches (one year's work in each), but these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

### Advanced Standing.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that they are qualified intelligently to avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Thursday, September 28; Friday, September 29, and Saturday, September 30, 1905, at 2 P. M.

### Method of Instruction.

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and by instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction:

### **Anatomy.**

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

### **Osteology.**

EMORY W. REISINGER, M. D.,

Assistant to the Professor of Anatomy.

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like the study of the softer parts in the dissecting room, and is an indispensable preliminary to that work.

### **Practical Anatomy.**

EMORY W. REISINGER, M. D.,

Demonstrator.

The dissecting room will be open daily for students, after October 15th, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

### **Histology.**

R. S. BLACKBURN, M. D.

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to cover thoroughly the subject of animal histology, the human tissues being compared with those of the lower vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearances.



#### Histological Laboratory

##### **Embryology.**

ROY D. ADAMS, M. D.

This course will consist of lectures and laboratory work. It will begin with spermatogenesis and ovogenesis, and then taking up the development after fertilization will proceed to the formation of the rudiment of the embryo, and conclude with a consideration of organology.

##### **Physiology.**

PROF. MURRAY GALT MOTTER, B. S., A. M., M. D.

This course will consist of lectures upon General and Special Physiology, together with recitations, frequent examinations, demonstrations, and laboratory work.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

##### **Materia Medica and Therapeutics.**

PROF. G. LLOYD MAGRUDER, A. M., M. D.,

One of the Consulting Physicians to Providence Hospital, and the Central Dispensary and Emergency Hospital.

Instruction in this Department will extend over the first three years of the medical course.



Students of the second and third year will be instructed in the physiological action and therapeutical use of drugs, and in prescription writing.

### **Materia Medica.**

WILFRED M. BARTON, M. D.

Under this course students of the first year will be taught the appearance and physical properties of the crude drugs and the preparations derived therefrom, illustrated by actual specimens. The elements of pharmacology will also be taught, including the compounding of medicinal substances and preparations, incompatibilities, weights and measures, doses, etc.

### **Chemistry and Toxicology.**

PROF. JOHN D. HIRD, A. M.

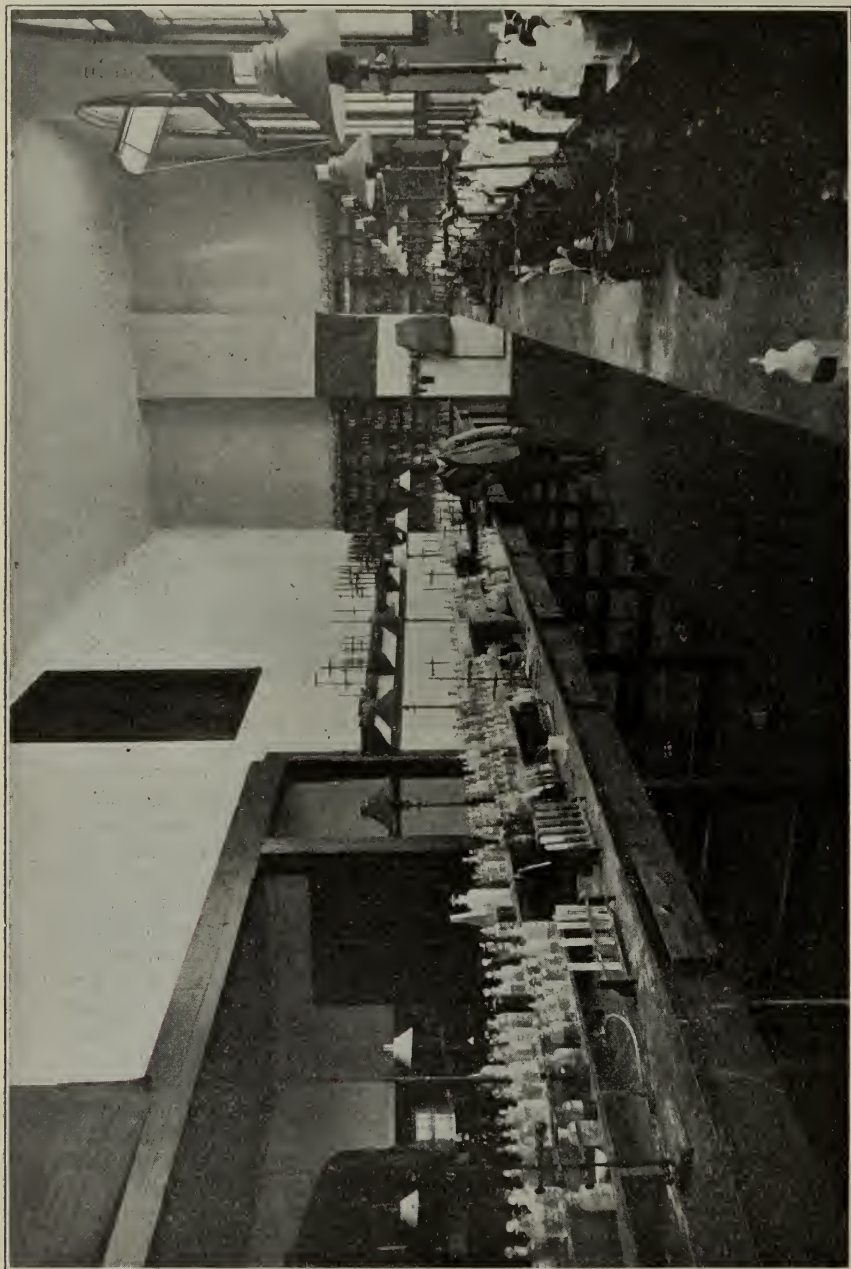
It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonism is briefly considered, while the evidence of poisoning as furnished by chemical analysis is considered more in detail.





Chemical Laboratory

## Physics.

MAHLON ASHFORD, M. D.,

Instructor in Physics.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

## General Pathology and Bacteriology.

PROF. EDWIN B. BEHREND, A. B., M. D.

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second half year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

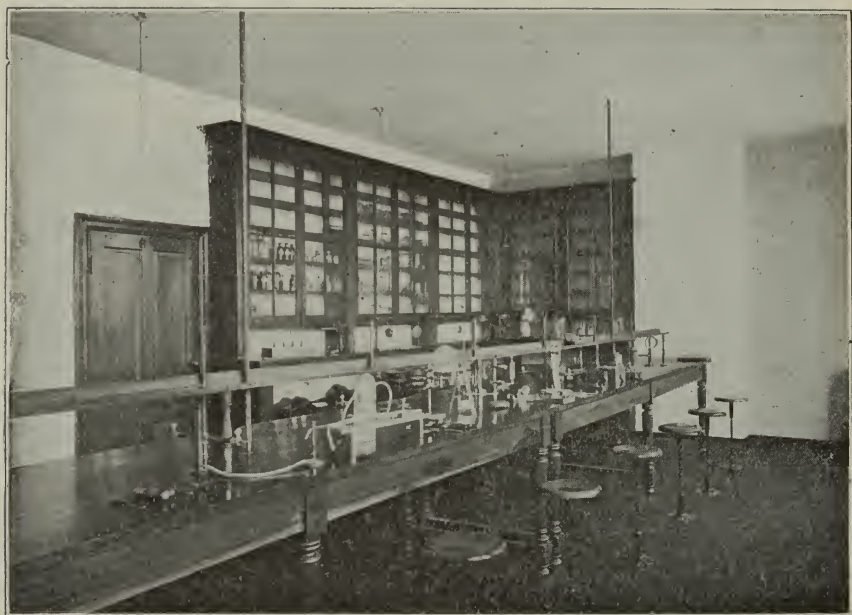
The course in clinical pathology contemplates the examination of blood, urine, feces, gastric contents, sputum, pathological exudates, etc., with especial reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

## Special Pathology and Morbid Anatomy.

PROF. I. W. BLACKBURN, M. D.,

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to consideration of tumors and morbid growths in general and in connection with special pathology to the pathology of mental diseases, and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes. The course will be supplemented by lectures, demonstrations, and practical necropsy work at the Government Hospital for the Insane.



Physiological Laboratory

### **Surgical Pathology and Military Surgery.**

**PROF. W. C. BORDEN, M. D., F. R. M. S.,**

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital  
Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

### **Theory and Practice of Medicine and Diseases of Children.**

**PROF. SAMUEL S. ADAMS, A. M., M. D.,**

Attending Physician to Georgetown University and Children's Hospitals; Consulting  
Physician to Government Hospital for Insane.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by the various clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

## Principles and Practice of Surgery.

PROF. GEORGE TULLY VAUGHAN, M. D.,

One of the Attending Surgeons at the Emergency Hospital, and Chief Surgeon Georgetown University Hospital; Consulting Surgeon Government Hospital for Insane.

The course in surgery extends over two and one-half years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics which are held at the various hospitals and dispensaries, which afford material in abundance.

Students are instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of the principal surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

## Obstetrics.

PROF. JOHN F. MORAN, A. B., M. D.,

Obstetrician, Georgetown University and Columbia Hospitals.

The course will be graded, and will consist of classified lectures comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which he was required to keep records and present written reports. Every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction. Special attention will be devoted to abdominal palpation, pelvimetry, digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of forceps, version, etc.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will be urged.

An operative course on the Budin-Pinard manikin will also be given.

## Gynecology and Abdominal Surgery.

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

One of the Consulting Physicians to the Central Dispensary and Emergency Hospital; Consulting Gynecologist to the Woman's Dispensary and the Government Hospital for Insane; Surgeon in Charge of his own Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recita-



tions, and also in small classes at private and public operations, in four different hospitals, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery will receive special attention.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

### **Ophthalmology and Otology.**

PROF. SWAN M. BURNETT, PH. D., M. D.,

Ophthalmologist and Otologist to Georgetown University, Providence and Children's Hospitals, and to the Central Dispensary and Emergency Hospital.

The course begins with lectures on the anatomy of the eye and ear illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and acoustics and the proper methods of examining the eye and ear. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye and ear are wholly clinical, illustrative cases being taken from Dr. Burnett's extensive service at the Central Dispensary and Emergency Hospital, and at Children's, Providence, and the University Hospitals. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than twelve hundred new cases of eye and ear diseases are treated annually at the Central Dispensary alone. Every important operation on the eye is performed in the presence of each section.

Dr. C. R. Dufour, Demonstrator of Ophthalmology and Otology, gives clinical demonstrations twice a week at the Eastern Dispensary and University Hospital.

### **Physical Diagnosis, Laryngology, and Rhinology,**

PROF. T. MORRIS MURRAY, M. D.,

Director of the Throat and Chest Clinic, Georgetown University Hospital, and at the Central Dispensary and Emergency Hospital.

In addition to the didactic lectures on the principles of physical diagnosis, laryngology, and rhinology at the college, there will be demonstrations in these branches to the students at Dr. Murray's very large clinic for diseases of the throat, nose and chest at the Central Dispensary and Emergency Hospital. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Murray; thus they will be made familiar with one of the most important branches of medical practice.

### **Hygiene.**

PROF. GEORGE M. KOBER, M. D.,

Consulting Physician to Children's Hospital, Washington Asylum Hospital, Providence Hospital and Central Dispensary and Emergency Hospital.

The course on hygiene will extend over two years, and will include lectures and recitations on sunlight, air, climate, and



meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages, and condiments, morbid and infected food products; the skin, bath, and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

### State Medicine.

PROF. W. C. WOODWARD, M. D., LL. M.,

Health Officer District of Columbia.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon students in their fourth year.

### Medical Zoology.

PROF CH. WARDELL STILES, A. M., PH. D.,

Zoologist United States Bureau of Public Health and Marine Hospital Service; Honorary Custodian of the Helminthological Collection, United States National Museum; Correspondent Etranger de l'Academie de Medecine (Paris).

This course comprises a series of about thirty lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life-history of the different forms, and the best means for treatment and prevention. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for the course, by lantern slides, and exhibitions of specimens. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of feces, for determining the presence of parasites. An opportunity to carry on original investigations in Medical Zoology, under the direct supervision of Dr. Stiles will be offered to graduates or to advanced students who may desire to pay special attention to this branch.

### Dermatology.

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology, etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by plates. A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

### **Mental and Nervous Diseases.**

PROF. WILLIAM A. WHITE, M. D.,

Superintendent of the Government Hospital for the Insane.

This course will consist of didactic and clinical lectures at the Government Hospital for the Insane, which accommodates about 3,000 patients. Members of the Third and Fourth Classes will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity and diseases of the nervous system which are usually seen in the practice of the general practitioners in medicine.

### **Diseases of the Nervous System and Electro-Therapeutics.**

PROF. D. PERCY HICKLING, M. D.,

Neurologist to the Providence Hospital and Physician in charge of the Washington Asylum Hospital.

This course is largely clinical, and will embrace those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course on Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology, with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures will be amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

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## **CLINICAL INSTRUCTION AND ADVANTAGES.**

### **Georgetown University Hospital.**

*Corner Thirty-fifth and N Streets N. W.*

Attendance upon clinical instruction is obligatory for students of the third and fourth years.

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics will be given by the following professors of this school and by other members of the Hospital and Dispensary staff in the new amphitheatre, which accommodates over 180 students.

*Surgical*.—Dr. Vaughan.

*Medical*.—Dr. Adams.

*Gynecological*.—Dr. Johnson.

*Diseases of the Eye and Ear*.—Drs. Burnett and Dufour.

*Diseases of the Throat, Chest and Nose*.—Dr. Murray.

*Dermatology*.—Dr. McGuire.

### Providence Hospital.

*Capitol Hill, corner Second and D Streets S. E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government. It contains over four hundred beds. The medical and surgical wards are usually well filled with interesting cases. In the new surgical amphitheater, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Regular Clinics are given by the following Professors:

*Surgical*.—Drs. Bayne, Crook, and Mallan.

*Diseases of the Eye and Ear*.—Dr. Burnett.

*Clinical Medicine*.—Drs. Vincent, Luce, and Marbury.

*Gynecological*.—Dr. Cuthbert.

*Neurological*.—Dr. Hickling.

Drs. Magruder and Kober are on the Consulting Staff.

### Children's Hospital.

*W Street, between Twelfth and Thirteenth Streets N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to observe and comprehend thoroughly the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2:30 to 4:30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Burnett and Adams, who are on the Staff, will give clinical instruction at this hospital. Drs. Johnson and Kober are on the Consulting Staff.

### Central Dispensary and Emergency Hospital.

*Fifteenth Street and Ohio Avenue, N. W.*

During the last year over 15,000 patients were treated here, and over 2,200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As a large proportion of the serious cases of accident that occur in the city are first brought to this hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The new building just completed offers greatly im-

proved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of practical bacteriology, pathology and Röntgen ray work in association with surgery and medicine. Dr. Eugene Le Merle is in charge of pathology in this laboratory. Drs. Johnson, Magruder and Kober are on the Consulting Board.

Regular clinics are given by the following Professors of this school and other members of the staff:

*Surgical*.—Dr. Vaughan.

*Diseases of the Eye and Ear*.—Dr. Burnett.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose*.—Dr. Murray.

*Medical*.—Dr. J. D. Morgan.

### Garfield Memorial Hospital.

*Florida Avenue and Tenth Street, N. W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical*.—Dr. J. D. Morgan.

*Obstetrical and Gynecological*.—Dr. H. D. Fry.

In all the above Hospitals the positions of Resident and Assistant Resident Physician are open to competitive examination to graduates of this school, who last year secured fifteen out of eighteen available positions.

In addition to the foregoing, clinics will be given by—

Dr. William A. White, *Mental and Nervous Diseases* at Government Hospital for Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Dr. Jno. F. Moran, *Obstetrical*, Columbia Hospital.

Dr. Wm. C. Borden, *Surgical*, U. S. General Hospital, Washington Barracks.

Dr. D. Percy Hickling, *Neurological, Medical and Surgical*, Washington Asylum Hospital.

Dr. Llewellyn Eliot, *Medical*.

### Examinations.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics, physiology and materia medica.

The *Second Class* upon anatomy, physiology, chemistry, urinalysis, therapeutics, bacteriology, pathology, minor surgery and toxicology.

The *Third Class* upon therapeutics, the practice of medicine, surgery, obstetrics, gynecology, general pathology, spe-



cial pathology and morbid anatomy, medical zoology, surgical pathology and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis, ophthalmology and otology, hygiene, state medicine, mental diseases, dermatology, electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

### Re-examinations.

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session, and students will not be permitted to advance to higher classes if they have more than one condition after such re-examination; nor can students be permitted to advance to a higher class with a condition in a branch which is not taught during the year in question. Students must be free from all conditions before being advanced to the Senior Class.

Students failing to comply with the foregoing requirements will have to repeat the yearly course for which the examination has been held.

### Requirements for Graduation.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction, delivered in some recognized medical school, the last of which shall have been delivered in this institution.

### Fees.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	110 00
Rent for microscope.....	5 00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to pay all charges for injury to microscopes, apparatus and other college property.

### FEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs.....	\$20 00
Dissection .....	10 00
Practical chemistry, including chemicals.....	25 00
Didactic and laboratory course in histology, pathology or bacteriology, each.....	25 00
Operative surgery on the cadaver, per course.....	25 00

No graduation fee is required.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

A student repeating a course for any reason will be charged full fees for that course.



## Graduates of Medical School, 1904.

### DEGREE OF M. D.

Adams, Roy Delaplaine.....	District of Columbia.
Ashford Mahlon.....	District of Columbia.
Barton, Frederick Ray.....	Nova Scotia.
Bernstein, Hyman.....	District of Columbia.
Carney, Patrick Joseph.....	Massachusetts.
Constas, John N.....	Greece.
Coleman, David Charles.....	Massachusetts.
Conlin, Charles Francis.....	Massachusetts.
Green, Robert Joseph.....	District of Columbia.
Connor, John Edward.....	Massachusetts.
Hamilton, Ralph Alexander.....	District of Columbia.
Hayden, Daniel B.....	Illinois.
Hemler, William Francis.....	Pennsylvania.
Hilton, James Franklin.....	District of Columbia.
Hough, William Hite.....	Virginia.
Kaveney, Joseph James.....	Massachusetts.
Kett, Michael C.....	Colorado.
Linnehan, George Albert.....	Massachusetts.
McCormick, John Joseph.....	Massachusetts.
O'Hara, Francis James.....	Massachusetts.
Quigley, Francis Leo.....	Kansas.
Rivera-Pagan, Pedro M.....	Puerto Rico.
Rogers, William Elwin.....	Virginia.
Sharp, De Haven.....	District of Columbia.
Shea, Michael Ignatius.....	Massachusetts.
Sheehan, Dennis John.....	Vermont.
Short, Francis Jerome.....	New York.
Short, William Henry.....	New York.
Smith, William Meredith.....	Maryland.
Sullivan, Timothy Joseph.....	Massachusetts.
Swetnam, Charles R. Keith.....	Virginia.
Welch, Thomas Francis.....	Massachusetts.

### DEGREE OF D. D. S.

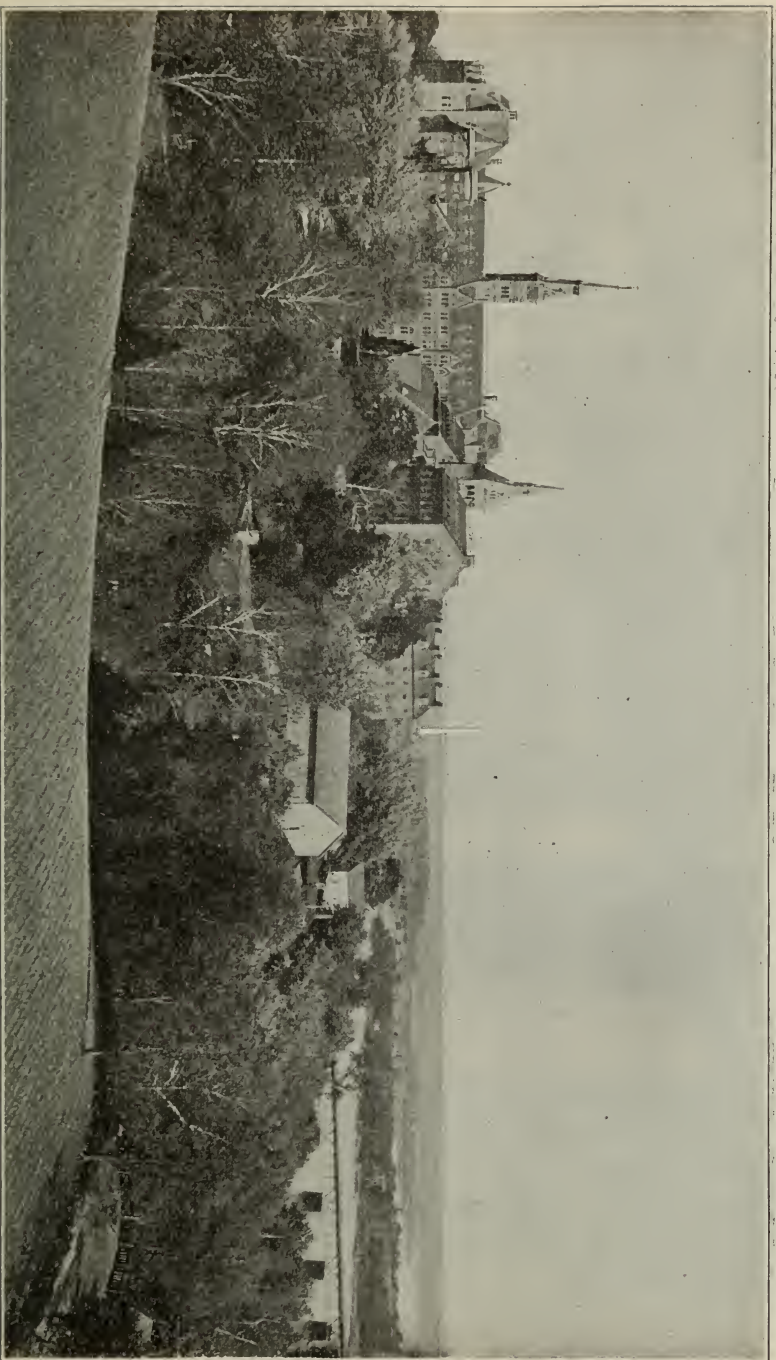
Bradley, Howard Alansen.....	Illinois.
Conigisky, Joseph Perl.....	Illinois.
Connors, George Robert.....	Rhode Island.
Dorman, John Edward.....	Iowa.
Griffin, John J.....	Massachusetts.
Mulhearn, Francis Richard.....	Rhode Island.
McConnell, Frank Stevenson.....	District of Columbia.
Regan, Ralston Byrnes.....	Mississippi.

## Matriculates 1904-1905.

Acker, Albert E.....	District of Columbia.
Allen, John.....	District of Columbia.
Apperious, Samuel H.....	Alabama.
Barry, Joseph F.....	New York.
Bastable, Edward J.....	District of Columbia.
Bastion, J. Edward.....	Massachusetts.
Bayly, R. C.....	District of Columbia.
Beistle, Matthew J.....	Michigan.
Blaine, Robert G.....	District of Columbia.
Blackistone, J. C.....	District of Columbia.

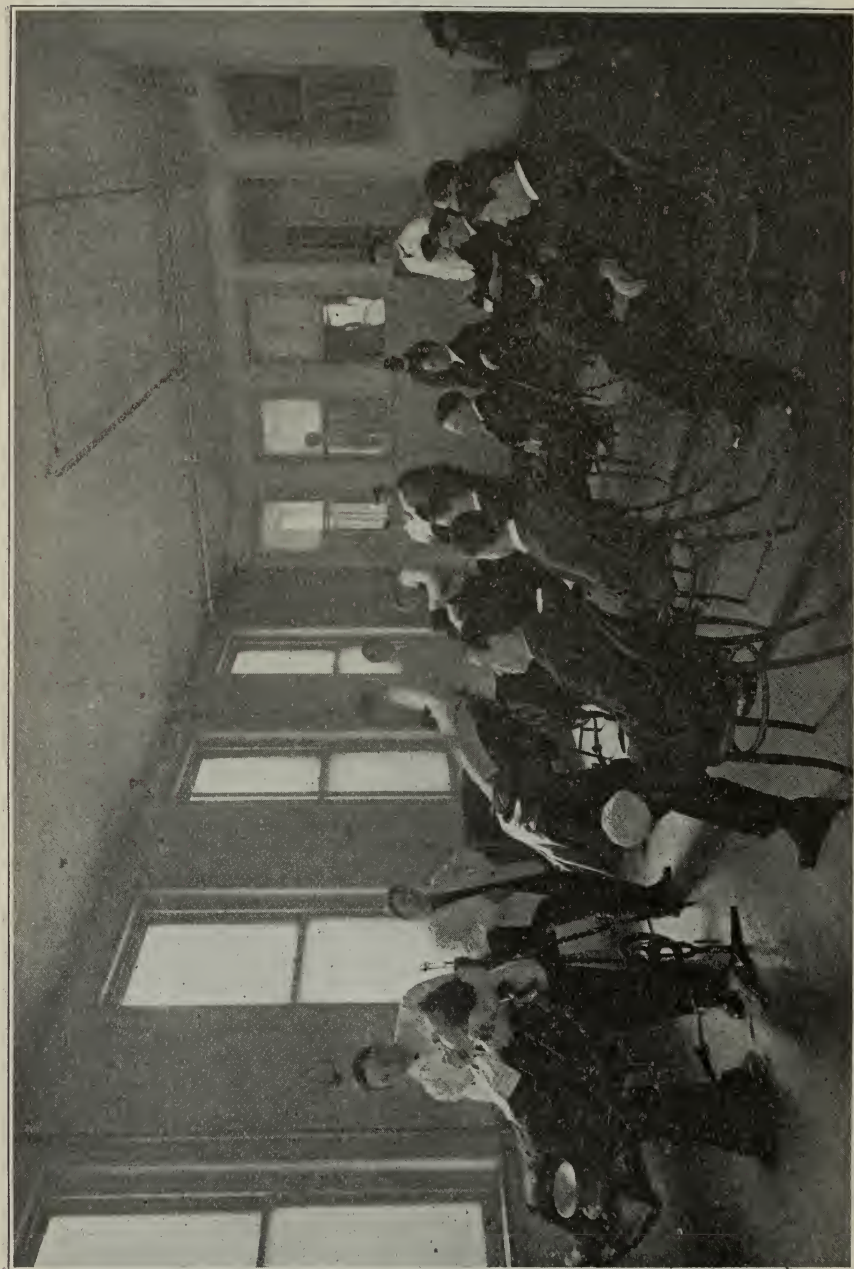
Boland, Martin.....	Massachusetts.
Breckinridge, Scott D.....	District of Columbia.
Brennan, John E.....	Connecticut.
Briggs, William A.....	Kansas.
Briscoe, John P., Jr.....	Maryland.
Burke, Fred B.....	Michigan.
Burke, Joseph P.....	Pennsylvania.
Butler, Francis J.....	Massachusetts.
Byrnes, Bernard L.....	New York.
Byrne, John F.....	Rhode Island.
Camalier, Franklin A.....	Maryland.
Carey, Joseph S.....	Pennsylvania.
Carroll, J. Edward.....	Massachusetts.
Carroll, M. J.....	Massachusetts.
Casey, William B.....	Connecticut.
Cassidy, Louis T.....	Connecticut.
Chapin, Harry B.....	Rhode Island.
Cleary, T. J.....	New York.
Collins, Joseph H.....	Pennsylvania.
Connor, W. P.....	Ohio.
Conrad, Thomas K.....	Virginia.
Cooney, Martin J.....	Massachusetts.
Coyle, William E.....	Connecticut.
Craig, A. E.....	District of Columbia.
Creamer, James A.....	Massachusetts.
Croghan, Francis E.....	Rhode Island.
Davis, Ezra M.....	South Carolina.
De Vanny, David A.....	New York.
Devlin, Joseph A.....	New York.
Dougherty, Bernard J.....	Minnesota.
Dougherty, Gerald.....	Delaware.
Drennan, Lawrence.....	Virginia.
Drew, Harry C.....	New York.
Dunn, Robert D.....	Rhode Island.
Esch, Victor H.....	District of Columbia.
Elexander, George W.....	Rhode Island.
Elzey, William J.....	Maryland.
Flaherty, John E.....	Connecticut.
Footte, John A.....	Pennsylvania.
Frey, Joseph L.....	New York.
Gannon, James A.....	District of Columbia.
Gerrard, Harry C.....	Massachusetts.
Griffith, Charles I.....	District of Columbia.
Guinan, Joseph P.....	New York.
Harrison, W. B.....	Mississippi.
Hayden, Reynolds.....	District of Columbia.
Healy, Charles B.....	Massachusetts.
Heard, H. H.....	South Carolina.
Hermesch, Harry R.....	Indiana.
Hunter, W. Myers.....	North Carolina.
Jarboe, J. Parran.....	Maryland.
Johnson, Paul B.....	District of Columbia.
Jones, George W.....	Maryland.
Kearney, James I.....	Pennsylvania.
Kelleher, J. Edward.....	Massachusetts.
Kelly, Frank E.....	Massachusetts.
Kennedy, William J.....	West Virginia.
Kenney, Thomas H.....	Massachusetts.
Kirby William P.....	District of Columbia.
Kirmayer, F. G.....	Massachusetts.
Larkin, P. Edward.....	New York.
Light, Given A.....	Pennsylvania.
Lux, Henry G., Jr.....	New York.
McCabe, Michael, J.....	New York.

McDermid, Claude E.....	New York.
McGarrall, John J.....	West Virginia.
McKagney, John F.....	Delaware.
McLaughlin, James W.....	Pennsylvania.
Magovern, Harry A.....	New York.
Malabre, A. L.....	New York.
Maloney, John M.....	Massachusetts.
Martell, Leon A.....	Massachusetts.
Mayock, Peter P.....	Pennsylvania.
Monahan, John M.....	Kentucky.
Mulvanity, Albert F.....	New Hampshire.
Murphy, Daniel J.....	Massachusetts.
Murrin, Joseph S.....	Pennsylvania.
Neill, Thomas E.....	Virginia.
Newton, Philip.....	District of Columbia.
Nunez, Manuel Y.....	Peru.
Nussa, Rafael L.....	Porto Rico.
O'Hara, James F.....	Pennsylvania.
Oleson, Robert H.....	District of Columbia.
Pargon, Joseph A.....	New York.
Pearson, John M.....	District of Columbia.
Phillips, Edmund L.....	Maryland.
Potter, J. Albert.....	New York.
Powers, E. Parnell.....	Massachusetts.
Quinn, James H.....	Massachusetts.
Ready, Michael J.....	District of Columbia.
Reidt, Urban H.....	Pennsylvania.
Reilly, J. Victor.....	New York.
Reynard, Walter A.....	New York.
Reynolds, George E.....	Massachusetts.
Romaine, Frank W.....	District of Columbia.
Russell, Murray A.....	Virginia.
Sacks, Samuel.....	District of Columbia.
Schneider, Elwin C.....	Virginia.
Schreiber, Henry R.....	District of Columbia.
Shanley, T. J.....	North Dakota.
Sheridan, Charles R.....	Maryland.
Sheridan, Frank J., Jr.....	District of Columbia.
Simpson, C. Augustus.....	Virginia.
Straub, John A.....	Pennsylvania.
Stuart, Daniel D. V.....	New York.
Sullivan, James F.....	Rhode Island.
Sullivan, Robert Y.....	District of Columbia.
Sult, C. W.....	Virginia.
Sweeney, Michael T.....	Massachusetts.
Swetnam, Ford H.....	Virginia.
Taylor, C. B.....	California.
Taylor, Edgar C.....	Louisiana.
Thornton, John Joseph.....	West Virginia.
Titus, Stanley H.....	Washington.
Tobin, Richard F.....	District of Columbia.
Turton, William E.....	District of Columbia.
VanEmon, C. G.....	Illinois.
Verbrycke, J. R., Jr.....	District of Columbia.
Watson, John W.....	District of Columbia.
Williams, C. Fuller.....	New York.
Willson, Prentiss.....	District of Columbia.
Wollenberg, Robert A. C.....	District of Columbia.
Yingling, Matthew.....	Michigan.



View from Observatory Hill





Dental Infirmary



## DENTAL DEPARTMENT.

## Faculty.

REV. JEROME DAUGHERTY, S. J.,  
*President of Georgetown University.*

F. H. SHULTZ, D. D. S.,  
*Vice-President and Professor of Operative Dentistry.*

WILLIAM N. COGAN, D. D. S.,  
*Dean of the Faculty, Professor of Dental Technics and Orthodontia.*

GEORGE M. KOBER, M. D.,  
*Treasurer of the Faculty.*

SHIRLEY W. BOWLES, D. D. S.,  
*Professor of Prosthetic Dentistry.*

M. M. DOLMAGE, D. D. S.,  
*Professor of Dental Pathology and Histology.*

H. JEROME ALLEN, M. D., D. D. S.,  
*Professor of Dental Medicine.*

JESSE RAMSBURGH, A. M., M. D.,  
*Professor of Oral Surgery.*

FRANK BAKER, A. M., M. D., PH. D.,  
*Professor of Anatomy.*

G. LLOYD MAGRUDER, A. M., M. D.,  
*Professor of Materia Medica and Therapeutics.*

MURRAY GALT MOTTER, B. S., A. M., M. D.,  
*Professor of Physiology.*

JOHN D. HIRD, A. M.,  
*Professor of Chemistry and Toxicology.*

EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology.*

## Special Lecturers and Assistants.

GEORGE E. HAMILTON, LL. D.,  
*Dental Jurisprudence.*

PAUL W. EVANS, A. B., D. D. S.,  
*Special Lecturer on Dental Ceramics.*

ARTHUR B. CRANE, D. D. S.,  
*Special Lecturer on Anaesthesia and Extraction.*

G. HARRIS WHITE D. D. S.,  
*Instructor in Metallurgy and Assistant in Dental Histology.*

A. L. GARABEDIAN, D. D. S.,  
*Instructor in Crown and Bridge Work.*

WILFRED M. BARTON, M. D.,  
*Assistant to Chair of Materia Medica and Therapeutics.*

EDWIN R. HODGE, M. D.,  
*Assistant to Chair of Anatomy.*

TRUMAN ABBE, A. B., M. D.,  
*Assistant to Professor of Physiology.*

THOMAS S. LEE, A. B., M. D.,  
*Assistant to Professor of Physiology.*

JOHN B. BRIGGS, B. S., M. D.,  
*Assistant to Professor of Physiology.*

MAHLON ASHFORD, M. D.,  
*Instructor in Physics.*

### Demonstrators.

M. M. DOLMAGE, D. D. S.,  
*Superintendent of Laboratories and Clinics.*

G. HARRIS WHITE, D. D. S.,  
*Operative Technics.*

J. A. FERGELL, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*

J. ERNEST SMITH, D. D. S.,  
*Assistant Demonstrator of Operative Dentistry.*

A. S. WEAVER, D. D. S.,  
*Prosthetic Technics.*

A. L. GARABEDIAN, D. D. S.,  
*Prosthetic Dentistry.*

A. J. KLEBERG, D. D. S.,  
*Assistant Demonstrator of Prosthetic Dentistry.*

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### Clinical Staff.

W. W. EVANS, M. D., D. D. S., Washington, D. C.

ROBERT E. L. WILTBERGER, D. D. S., Washington, D. C.

J. CURTISS SMITHE, D. D. S., Washington, D. C.

B. HOLLY SMITH, M. D., D. D. S., Baltimore, Md.

CYRUS M. GINGRICH, D. D. S., Baltimore, Md.

## DENTAL DEPARTMENT.

### Requisites for Admission.

The Dental Department conforms to the rules and regulations of the National Association of Dental Faculties, of which it is a member, as well as to those of the National Association of Dental Examiners.

In accordance with these regulations, a preliminary examination, equivalent to a certificate of entrance into the third year of a high school, is required as a condition of admission. This will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course of recognized institutions.

Those presenting certificates of examination for advanced standing from other reputable dental colleges of equal requirements will be admitted to the corresponding higher class without further examination.

The preliminary examinations will be held at the college building on Thursday, September 28, Friday, September 29, and Saturday, September 30, and the regular session will begin Monday, October 2d, 1904, and end May 31, 1905.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless such delay is due to sickness, which must be vouched for by the certificate of a reputable practicing physician. In such case the date of admission shall not be later than twenty days from the opening day.

Students must continue in attendance until the close of the session in order to obtain credit for a full term.

### Methods of Instruction.

The course of instruction will consist of didactic lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instruction. The number of students taken in each class allows each member to come into close contact with the professors, and insures the most thorough individual instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begins with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.

THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating-rooms* unequaled in point of lighting, heating, and conveniences. They are furnished with all the requirements of such apartments. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anesthetics, for the extraction of teeth; also one for taking impressions, occlusions, and doing work requiring the use of plaster or wax. The preparation and administration of sulphuric ether and nitrous oxide during the session familiarizes students with these valuable agents.

There is also a department of Oral Surgery attached to the Georgetown University Hospital, where students have the privilege of witnessing all the operations pertaining to cleft palate, hare-lip, fractured maxilla, empyema of antrum, etc. Both infirmaries are under the immediate and continuous direction of a corps of competent demonstrators, who are always present to instruct and assist the students in their work. In the departments the student is taught the art of operative and prosthetic dentistry. The press of patients is very great, and the opportunities for practice unequaled. The student not only witnesses every kind of dental manipulation as practiced by the experienced, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session, and, indeed, is considered as the only factor essential to becoming a competent dental practitioner.

Each student is expected to provide his own instruments—a list of which may be obtained on application to the demonstrator in charge—with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

The operating-rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each day during the session.

### Curriculum.

The instruction embraces a graded course of three years, each course followed by examinations thereon.

Punctual attendance upon the lectures and clinics is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study:

## FIRST YEAR.

<i>Lectures and Recitations.</i>	<i>Laboratory.</i>
Anatomy.....	4 hours.....As assigned
Osteology.....	2 hrs. for 3 mos.
Histology, General and Dental.....	4 hours
Materia Medica.....	2 hours.....1 hour
Chemistry.....	3 hours for 3 mos.. 3 hrs. for 3½ mos.
Physics.....	1 hour
Operative Technics.....	1 hour.....12 hours
Prosthetic Technics.....	1 hour.....12 hours
Operative Dentistry.....	2 hours.....2 hours
Prosthetic Dentistry.....	2 hours.....2 hours
Physiology.....	3 hours

## SECOND YEAR.

Anatomy.....	4 hours.....As assigned
Physiology.....	4 hours
Therapeutics.....	3 hours
Chemistry.....	3 hrs. for 3 mos.... 3 hrs. for 3 mos.
Bacteriology.....	12 hrs. for 2 mos.
Operative Dentistry.....	2 hours.....2 hours
Prosthetic Dentistry.....	2 hours.....2 hours
Oral Surgery.....	2 hours
Dental Pathology.....	1 hour.....1 hour
Anaesthesia and Extraction.....	1 hour
Infirmary Practice	

## THIRD YEAR.

General Pathology.....	3 hours.....3 hours
Oral Surgery.....	2 hours
Dental Pathology.....	1 hour.....1 hour
Prosthetic Dentistry.....	2 hours.....2 hours
Operative Dentistry.....	2 hours.....2 hours
Metallurgy.....	1 hour
Dental Medicine.....	1 hour
Anæsthesia and Extraction.....	1 hour
Orthodontia.....	1 hour.....1 hour
Ceramics.....	1 hour.....1 hour
Infirmary Practice	



## COURSE OF STUDY.

### Oral Prosthesis and Metallurgy.

PROF. SHIRLEY W. BOWLES, D. D. S.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: The preparation and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect articulations, the method of constructing the different bases used for dentures, and the construction and application of obturators.

Æsthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by both didactic and clinical instruction, as well as special demonstrations in difficult cases.

Careful attention will be paid to the chemistry of metals and all the materials used in Dentistry.

### Dental Ceramics.

PAUL W. EVANS, A. B., D. D. S.

A special course of instruction in Dental Ceramics is arranged for the graduating class. The college is provided with a large electric furnace, and porcelain inlays and crown and bridge work, together with continuous gum work, will receive special attention.

### Operative Dentistry.

PROF. FRANK H. SHULTZ, D. D. S.

The lectures from the chair of operative dentistry present the means and methods in use for the preservation of the natural teeth, together with the principles which form the basis of practice, including a description of instruments and their uses; also appliances and materials used in operating; the treatment and preparation of cavities; the methods of filling with various forms of gold and plastic materials. A special feature of instruction from this chair will be practical demonstrations in the mouth, in the infirmary, before the entire class.

## Oral Surgery.

PROF. JESSE RAMSBURGH, A. M., M. D.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis, and antiseptics, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

## Dental Technics and Orthodontia.

PROF. W. N. COGAN, D. D. S.

This course, while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observation, enabling the student to become familiar with the forms and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the living subject.

The treatment of irregularities of the dental arch require great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

## Dental Histology and Pathology.

PROF. M. M. DOLMAGE, D. D. S.

The lectures on Dental Pathology include such portions of general pathology as are of special interest to the dental student.

A detailed consideration is given of all the diseases of the teeth and surrounding parts; normal and abnormal character of oral secretions; dentition and its pathological results. The treatment necessary under each head is minutely detailed.

The lectures on Histology include the comparative anatomy and the development of the teeth, and their component tissues, and the functions of dental organs.

### Dental Medicine.

PROF. H. JEROME ALLEN, M. D., D. D. S.

The lectures in this course will embrace a discussion of all drugs used in dentistry. Their preparation, physiological effect, therapeutic action and dental uses will be emphasized by this chair.

The administration of nitrous oxide and the use of local anesthetics will also be dwelt upon from a dental standpoint.

### Anatomy.

PROF. FRANK BAKER, M. D., PH. D.

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention will be given to the descriptive anatomy of the head, face, neck, and oral cavity.

For Histology and Osteology, see page 26.

The demonstrator of practical anatomy will have charge of the class in the dissecting-room, where dissecting material will be supplied in abundance.

### Physiology.

PROF. MURRAY GALT MOTTER, B. S., A. M., M. D.

One of the features of the progress and development of modern Dentistry is its closer association with the wider field of General Medicine through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a fuller knowledge of the whole organism, in order that he may the more intelligently deal with that part of it which is his immediate province. To this end the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while their practical application will be pointed out in lectures, recitations, and practical demonstrations.

### Materia Medica and Therapeutics.

PROF. G. LLOYD MAGRUDER, A. M., M. D.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contra-indications to their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

## Chemistry and Toxicology.

PROF. JOHN D. HIRD, A. M.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the vital chemistry of anesthetics, and the special chemistry of the mouth, the stomach, and intestinal tube will be fully treated.

## Physics.

MAHLON ASHFORD, M. D.

A course in the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

## Pathology and Bacteriology.

PROF. EDWIN B. BEHREND, A. B., M. D.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical, and embrace full laboratory teaching of the most important subjects of these studies.

## Graduation.

At the close of the third year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions:

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

The examinations are conducted orally and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the *Dental Infirmary* must be exhibited to the Professor of Operative Dentistry, and such other specimen work as he may require; also an approved specimen of dental mechanism constructed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

## Fees.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	100 00
Rent for microscope.....	5 00
Charge will be made for breakage in laboratories.	

A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1 ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

The expenses of a student during the eight months, including tuition, books, board and lodging, laundry and other incidentals need not exceed \$275.00, and \$350.00 will be a liberal allowance.

For further information apply in person or by letter to

WILLIAM N. COGAN, D. D. S., *Dean*,  
920 H Street N. W., Washington, D. C.

## MATRICULATES, 1904-1905.

### FIRST YEAR.

Barsamian, A. M.....	Armenia
Clark, H. A.....	Florida
Curry, F. L.....	Massachusetts
Duggan, Edward.....	Pennsylvania
Fleming, Mart.....	Pennsylvania
Hanretty, Lawrence M.....	New York
Hatton, Peter J.....	Massachusetts
Joliat, A. L. F.....	Ohio
Murningham, Richard J.....	New York
Murphy, B. G.....	Massachusetts
Murphy, D. A.....	Massachusetts
Riley, Harry B.....	District of Columbia
Sakurai, E.....	Japan
Sheehan, P. F.....	Massachusetts
Sweeney, Matthew J.....	Massachusetts

### SECOND YEAR.

Harris, Ephraim G.....	Maryland
McCarthy, John A.....	Massachusetts
Pardee, Edmund.....	New York
Regan, John T.....	Massachusetts
Rivera, Nestor.....	Porto Rico
Schaaek, Frederick.....	Massachusetts

### THIRD YEAR.

Duncan, J. K.....	Iowa
Hart, James H.....	Massachusetts
Jaffe, Saul.....	Russia
Kuehn, Otto F.....	Indiana
McDonald, Richard F.....	New Hampshire
Perry, Fred C.....	District of Columbia
Reilly, Joseph A.....	Massachusetts



## THE ACADEMIC DEPARTMENT.

### The College and Surroundings.

Georgetown College is situated on Georgetown Heights, two and one-half miles distant from the Capitol, overlooking the city of Washington and the Potomac River, and commanding one of the noblest views in the world. The site is singularly healthful, and the climate exceptionally soft and mild.

The College buildings are seven in number, exclusive of the Observatory, and present an aggregate frontage of about eight hundred feet. They are surrounded by grounds comprising seventy-eight acres, a large part of which is occupied by the "Walks," whose sylvan beauty has made them famous.

### Accommodations.

A considerable number of single rooms in the main building are rented to students of the Collegiate classes. Those whose means or inclinations do not lead them to take a private room, sleep in the dormitories and study in the general study hall. The dormitories are spacious and lofty, well ventilated and heated.

The double rooms of the North building are reserved for graduate students. None but graduates are allowed to board outside of the Collegiate premises, unless with immediate relatives.

### General Conspectus of Studies.

The course of studies at Georgetown is carefully and logically graded throughout.

The aim of the course is to give the student a complete general and liberal education, which will train and develop all powers of the mind and will cultivate no one faculty to an exaggerated degree at the expense of the others. It is intended, too, to impart the broadest possible culture, together with accuracy in scholarship. To attain this end during the Undergraduate period the course is prescribed, and embraces the Latin and Greek Classics, English, in its various branches and aspects and correlated studies, such as Rhetoric, Literature, History, etc., one Modern Language besides English, Mathematics, Chemistry, the Elements of Geology, Astronomy, and Mechanics, and a very thorough training in Physics and Rational Philosophy.

The exacting and comprehensive nature of this course may fitly form a subject for comment. It is believed that its requirements are seldom equalled, even in the larger colleges of

the country. As an indication of the labor demanded for the successful completion of the course, it may be stated that the amount of time spent in class by all the students varies from twenty-two to twenty-five hours weekly. To prepare for these classes and recitations, obligatory study for about twenty-three hours per week is exacted. Moreover, students who aim at a high standing spend much time in study in addition to that which is of obligation.

It is presumed that a man of fair capacity who has conscientiously followed this curriculum under capable professors will be possessed of trained and cultivated faculties, and will have considerable amount of positive knowledge in every department of learning. He will be thus in touch and intelligent sympathy with progress in every field of intellectual activity, and be saved as far as possible from narrowness and superficiality. Such an education serves, it is believed, as the best foundation for special training in any branch which the student, with his mind now mature and disciplined, may decide to take up. Those who are unable or unwilling to undergo the amount of labor and application necessary to the mastery of the full curriculum will be obliged to go elsewhere.

### Method of Instruction.

One of the most essential necessities for success in educational work is the possession of natural, thorough and effective methods of teaching. It is necessary, too, that these methods should be uniform in spirit throughout the school, employed equally by all the teachers under whom the student may come. In this respect Georgetown enjoys peculiar advantages. Her teaching is guided by the principles laid down in the famous *Ratio Studiorum*. This body of rules and suggestions has been elaborated by centuries of experience, and has been judged worthy of attentive study and hearty approbation by the greatest scholars. It is a noteworthy fact that many of the recently devised methods of teaching, such as the Natural, the Inductive, and similar plans, are in reality mere repetitions of the devices recommended long ago in the *Ratio Studiorum* and practiced with varying degrees of fidelity in the colleges of the Society of Jesus.

### Department of Physics.

Special attention is called to the facilities for scientific work offered by the College. The Physics Department is one of the largest and best appointed in the University. To its use an entire floor in the east wing of the south row is devoted. The lecture-room, enjoying a southern exposure, is particularly pleasant and lightsome, and has ample facilities for projection, both by light from the sun and the electric arc. The laboratory is well provided with instruments necessary for a careful train-

ing in physical experiment and measurements, especially in electricity, while the collection of instruments in the cabinet numbers several hundred and is carefully selected for thorough demonstration of the Principles of Physics. Among them are included such instruments as Melloni's apparatus for the study of heat radiation, complete sets of single and double refracting prisms, polariscopes, both refracting and reflecting; the most improved forms of galvanometers and rheostats. The department is provided with its own electrical plant, a 3 H. P. motor on a 500-volt circuit being used to drive an Edison bipolar generator of  $1\frac{1}{2}$  kilowatts. In addition to this direct current, the lecture-room is also provided with a single-phase alternating current of 104 volts, so that electricity in its various forms is constantly before the student and subject to his command for experiments of the most practical character. The collection of Crookes's tubes is very complete, including some of the best forms for the generation of the Röntgen ray.

### Chemical Department.

The work in this department is of a very practical character in accordance with the almost unanimous views of modern educators. From the very beginning of his course, each student is obliged to perform personally the greater part of his experimenting, thus supplementing by scientific training the didactic instruction of his literary classes. To meet the demands of such a course, the College has provided three large, well-lighted laboratories in the main building. Each desk is fitted with drawers and locker, and independent drainage and water and gas supply, while all necessary chemicals and apparatus are at hand. The lecture-room is very well equipped with special instruments for purposes of demonstration. A private laboratory is available for advanced students pursuing quantitative analysis or organic chemistry. All the laboratories are open to members of the chemistry classes during hours of recreation.

### Department of Biology.

In this Department much progress has been made. A very fine ornithological collection has been acquired, and arranged according to the most modern system of classification. The shell collection is very satisfactory, and there is also a sufficiently large herbarium. Twelve good microscopes of the Bausch and Lomb type are in service, and a series of biological charts by Leuckart and a fair variety of skeletons are in service. However, much is still needed, especially since the recent introduction of biological teaching into the Preparatory School in the way of anatomical and physiological models, botanical charts, and mounted preparations in general biology.

## Fees and Expenses.

### Regular Charges.

BOARDERS: Tuition, Board, Lodging, Washing and	
Mending of Linen for the Scholastic	
Year .....	\$400 00
Medical Aid and Medicines.....	10 00
Library Fee.....	2 00
	<hr/> \$412 00
\$206.00 payable invariably in advance at the beginning of every half-year. A deposit must also be made, sufficient for books and other incidental expenses. This need not exceed \$20.	
HALF BOARDERS: Tuition yearly.....	
	\$150 00
Luncheon at the College, yearly...	50 00
Library Fee.....	2 00
	<hr/> \$202 00
DAY SCHOLARS: Tuition, yearly.....	
	\$150 00
Library Fee.....	2 00
	<hr/> \$152 00

In the Sophomore year there is a charge of \$10 per annum for the use of chemicals.

In the Senior year there is a charge of \$10 for the use of philosophical and astronomical instruments.

Graduation Fee.....	\$10 00
Private room (if desired), with heat, light and attendance, per annum.....	80 00

The year opens usually on the first day of October, and closes with the annual commencement of the College in the latter part of June. It is divided into the fall, winter and spring terms.

For further information apply to REV. JEROME DAUGHERTY, S. J., Georgetown College, Washington, D. C.

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## GRADUATE SCHOOL.

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In the various departments of the Graduate School of Georgetown University provision is made for those college graduates who desire to continue their education in the Arts and Sciences. Some, in accordance with the best spirit of the age, seek these literary and scientific resources from a love of true learning, whilst others have in view a more complete preparation for the professions in which there is a call for general knowledge. It is the object of this vital part of the University to satisfy all such demands in the fullest and most liberal manner.

The courses, if pursued to the full extent recommended, are ample enough to tax the energies of any student. It is, therefore, more satisfactory to devote an entire year to them before entering upon the study of Law or Medicine, which the University also provides. Yet the minimum of work exacted is not too much to be profitably combined with the required attention to purely professional studies.

### Admission.

All graduates of Georgetown College, as also graduates of institutions of like standing, are admissible to these courses.

### Residence.

Students devoting themselves to Graduate work only at the College may reside within the College walls or not, as may suit their convenience. Those attending the Schools of Law or Medicine are expected to live outside of the College; and if desired, good boarding places, where reasonable rates are charged, will be secured for them.

The classes in the Graduate courses are conducted in the halls at Georgetown, from 9 A. M. to 12 M. Those in Biology partly at Georgetown on certain evenings, and partly in the Medical College in the afternoon.

### Term Time.

The year opens usually on the first day of October, and closes with the annual commencement of the College in the latter part of June. It is divided into the fall, winter, and spring terms.

### Studies.

A brief schedule of courses offered in the various branches will be found subjoined. Class work is carried on by lectures, directions in reading, and intimate personal and practical guidance on the part of the professor; and on the side of the student, by repetitions, review and practice papers, and the preparation of theses. The aim is to surround the Graduate student with every facility for advanced work, and every incitement to original investigation; in a word, to foster in him the spirit and habits of the scientist and scholar.

Every student must select at least three courses involving attendance upon lectures for eight hours a week. One of these courses must be Rational Philosophy. In the case of applicants for the degree of Master of Sciences, Rational Philosophy is optional, but must be replaced both as to study and examination by specialization in some branch of the Natural Sciences.



## Aids to Study.

Graduate students have the privilege of consulting their professors outside the regular class hours. Under the direction of the respective lecturers, they have the use of the Riggs Memorial Library, the Cabinet of Physics, the Physical, Biological, and Chemical Laboratories of the College, and the Scientific collections of the Coleman Museum.

The Graduates' Library of Philosophy and Literature, a choice collection intended for the seminar and reference, and already comprising some thousands of volumes, is placed in the old library of the North Building, occupied by the resident Graduates, and is accessible at all times as a study. The Morris Literary and Debating Society is organized for Graduate, Law, and Medical Students.

## Degrees.

The Master's degree in Arts and the same degree in Science, will be given to those already holding the corresponding Bachelor's degree, on the completion of one year of residence, with attendance upon lectures, presentation of papers, and satisfactory examinations, as specified above.

For the degree of Licentiate in Philosophy, two years of graduate work, one of which at least must be spent in residence, will be required. The additional conditions are: An hour's oral examination and the writing of a satisfactory paper on a subject in Psychology or Sociology selected by the professor.

The degree of Doctor of Philosophy will be conferred after three years of graduate work, two of which must be spent in residence. The candidate must pass a final examination, present a thesis bearing upon his special department of study, and convince the committee appointed by the Faculty of his distinguished merit to receive this degree.

The condition of residence may be waived in certain special cases where evidence of eminent fitness is submitted by the candidate. In such cases, candidates must file an application at the beginning of October of the academic year in which they wish to take the degree, specifying the degrees they hold, the line of work they intend to pursue, and the title and scope of the thesis they propose to submit. The special examination will be exacted in every case.

## Fees and Expenses

The fee for tuition is \$100 for the entire course of instruction. The charge for room, board and washing at the College is \$400 for the year.

For further information apply to REV. JEROME DAUGHERTY, S. J., President, Georgetown University, Washington, D. C.

## GEORGETOWN UNIVERSITY, SCHOOL OF LAW.

1905-1906.

The next term of this institution opens Wednesday evening, October 4, 1905, at 6:30 o'clock, in the Georgetown University Law Building, 506 and 508 E Street N.W., in the city of Washington. All persons interested are invited to attend the introductory lecture, which will then be delivered. The collegiate year closes on the first of June.

### Advantages.

Of the great advantages offered by a Law School over the unassisted reading of a student in a law office there can be no question. Here, however, the experiment has been successfully made of uniting the advantages of the two. The lectures are held in the evening, and, so far as practicable, students who put themselves into timely communication with the Secretary are connected with the offices of the ablest lawyers of the city, where they are allowed to familiarize themselves with the conduct of business and the practical duties of the profession.

The holding of the lectures and other exercises in the evening also enables clerks in the various departments of the Government, and other persons who are engaged during the day, to avail themselves of the privileges of the School.

The site of the institution, at the Capital of the Nation, presents advantages for the study of American jurisprudence which are unequaled elsewhere, and must always remain so.

The Law Library at the United States Capitol contains over 100,000 volumes, embracing all the noted treatises, reports and periodicals, ancient and modern, American, English and of the nations of Continental Europe. By the operation of the copyright law and the outlay of an annual appropriation it is constantly enriched with new acquisitions, and it is believed to be kept in a state of completeness unrivaled among the law libraries of the world. This magnificent collection is freely open to students seven hours daily.

Congress, the Court of Claims, the Supreme Court of the United States, and the Court of Appeals of the District of Columbia are in session during several months of each school year, and, with the Executive Departments, especially the Patent, Pension, and General Land Offices, furnish advantages for professional study nowhere else enjoyed.

The Supreme Court of the District of Columbia has the common law, equity, criminal and probate jurisdiction of a State Court in the States, besides that of the Circuit and Dis-

strict Courts of the United States. Its sessions afford the student opportunities for hearing the forensic arguments and forming the acquaintance of the leaders of the American Bar from all parts of the Union, besides thoroughly familiarizing himself with the practice of these various courts.

### Cost of Boarding, Etc.

There is no boarding department connected with the Law School. The majority of the law students board in Washington City, where the Law School is located, and where the cost of comfortable lodging, board, fuel and gas varies from \$20 to \$30 per month, according to the location and appointments selected. Satisfactory accommodation can easily be had at \$25 per month; and there are every year students who provide for themselves comfortably at a cost of \$20 per month, and even less. Tuition is \$100 per annum, with no incidental charges except a diploma fee of \$10 upon graduation. Cost of text-books is about \$30 per annum. The Law School Session is from the first Wednesday in October to the first Wednesday in June—about eight months. The necessary expense for board, lodging, tuition, books, etc., per annum, is, therefore, about \$350, exclusive, of course, of clothing and general incidental expenses.

### Students.

Students desiring to become members of the School enter their names upon the Secretary's register, at or before the opening of the term in October. Candidates for a degree must have received a high school education, or its equivalent, evidence of which must be presented or a preliminary examination will be required.

Candidates for advanced standing—*i. e.*, those desiring to complete the Course in one or two years—must, at the time of entry, present certificates of previous study at some approved Law School, or under the direction of a reputable practitioner. Such certificate must show, moreover, that the candidate has passed a satisfactory examination upon the subjects embraced in the First, or First and Second Years, as the case may be, otherwise an examination will be necessary before he can enter an advanced Class. This examination will always be required of those whose study has been carried on under the direction of a practitioner.

### Course of Study.

The regular curriculum will cover a period of three years, divided into a First, Second and Third Year. Upon the successful completion of the Three Years' Course the student will be entitled to receive the degree of Bachelor of Laws.

Students in the Second Year are required to attend the Lectures and be examined upon Part 2 of the studies of the

First Year, as indicated below ; and students in the Third Year are, in like manner, required to attend the lectures and be examined upon the studies of Part 2 of the Second Year.

Regular and punctual attendance on the part of the student is required, as also preparation for thorough recitations in class daily, *and delinquency in either particular will be deemed a sufficient cause for refusing to grant a degree.*

Candidates for a degree must have been in regular attendance for at least one year, and must pass a satisfactory examination on the entire year's course of study.

The following is the course of study pursued in the Law School:

FIRST YEAR:—Part 1. *Personal Property, Elementary Law, Torts, Domestic Relations, Criminal Law and Negotiable Instruments.*

Part 2. *Contracts and Real Estate.*

SECOND YEAR:—Part 1. *Subjects of Part 2 of the First Year's Course.*

Part 2. *Pleading, Evidence and Equity.*

Part 3. *Insurance, Agency and Partnership.*

THIRD YEAR:—Part 1. *Subjects of Part 2 of the Second Year's Course.*

Part 2. *Corporations, Common Law Practice, Equity Pleadings and Practice, Constitutional Law, the Law of Wills and Municipal Corporations.*

Special attention is given to the subject of "Equity Pleading and Practice," on account of the fact that not only is this the practice used in all Federal Courts, but also because nearly all the Codes of Practice adopted by the several States are founded thereon.

#### Fourth Year of Post-Graduate Course.

Students who have completed the foregoing three years' course, and holders of the degree of Bachelor of Laws, will, upon the successful completion of this course, be entitled to receive the degree of Master of Laws.

For further information apply to

S. M. YEATMAN,  
*Secretary and Treasurer.*

Address Georgetown University Law Building.

506-508 E Street, N. W.,

Washington, D. C.





## Text-Books and Works of Reference.

The latest editions should always be procured:

*Practice of Medicine*.—Tyson; Osler; French; Anders; W. Gilman Thompson.

*Surgery*.—Vaughan's Principles and Practice of Surgery; American Text-Book of Surgery; International Text-Book of Surgery; Beckham, Operative Surgery; Dennis' System of Surgery; Park; Warren's Surgical Pathology; Keyes' Genito-Urinary Diseases; Morton's Genito-Urinary Diseases; White & Martin's Genito-Urinary Diseases.

*Obstetrics*.—Lusk; Jewett; Hirst; Williams; American Text-Book of Obstetrics; Edgar; Webster; Garrigues.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Anatomy*.—Cunningham, Morris or Quain; Heath's or Cunningham's Dissector.

*Physiology*.—American Text-Book; Huxley-Lee; Landois.

*Chemistry*.—Remsen; Roscoe; Harris' Qualitative Analysis; Purdy, Tyson or Whipple on Urine; Witthaus' and Becker's Toxicology; Tanner on Poisons.

*Materia Medica*.—Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—Cushny; H. C. Wood; Hare; Potter.

*Medical Jurisprudence*.—Reese; Taylor; Tidy.

*Hygiene*.—Harrington; Parkes; Egbert.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

*Ophthalmology*.—May; de Schweinitz; Jackson; Astigmatism, by Swan M. Burnett; American System of Ophthalmology, Otology, and Laryngology; Suter's Handbook of Optics; Exposition of Principles of Refraction—Burnett.

*Otology*.—Politzer; Dench.

*Laryngology and Rhinology*.—Mackenzie; Knight; Bosworth; Shirley.

*Physical Diagnosis*.—Loomis; Vierordt; Hare; Tyson.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Stengel; Lazarus—Barlow.

*Bacteriology*.—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland.

*Nervous Diseases*.—Nervous and Mental Diseases—Church and Peterson; Text-Book on Nervous Diseases—Dana; Organic Nervous Diseases—Starr; Section on Nervous Diseases in Osler's Practice of Medicine.

*Mental Diseases*.—Practical Manual of Insanity—Brower and Banister; Nervous and Mental Diseases—Church and Peterson; Mental Diseases—Berkley; Practical Manual of Mental Medicine—Régis; Clinical Psychiatry—Defendorf; Reference Handbook of the Medical Sciences, article on Insanity.

*Electro-Therapeutics*.—Hadley; Marsey; Bigelow.

*Embryology*.—Heisler; Marshall; Hertwig.

*Parasites*.—Neumann; Braun; Stiles; Bull. 10-17, and Ransom, Bull. 18, Hygienic Laboratory, U. S. Public Health and Marine Hospital Service.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclopaedia; Taylor and Wells; Koplik.

*Dermatology*.—Hyde; Kaposi; Jackson.

UNIVERSITY OF ILLINOIS  
PRESIDENT'S OFFICE

## Text-Books and Books of Reference.

The latest editions should always be procured:

*Operative Dentistry*.—Kirk's American Text-Book of Operative Dentistry; C. L. Johnson's Operative Dentistry; The American System of Dentistry, edited by Litch; Weeks' Manual of Operative Technics.

*Prosthetic Dentistry*.—American Text-Book of Prosthetic Dentistry; Richardson's Mechanical Dentistry; Kingsley's Oral Deformities; Warren's Compend of Dental Prosthesis and Metallurgy; Guilford's Orthodontia; Goslee's Principles of Crown and Bridge Work.

*Oral Surgery*.—Marshall's Surgical Injuries and Diseases of the Face, Mouth, and Jaws; McCurdy's Oral Surgery; Syllabus by the Professor of this branch.

*Anatomy*.—Cunningham, Morris or Quain; Heath's Dissector; Broomell's Anatomy and Histology of the Mouth and Teeth; Black's Dental Anatomy.

*Bacteriology*.—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland; Miller's Micro-organisms of the Human Teeth.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead, Stengel; Burchard's Dental Pathology and Therapeutics; Bodecker's Anatomy and Pathology of the Teeth; Barrett's Oral Pathology and Practice.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers' and Broomell's Anatomy and Histology of the Mouth and Teeth.

*Physiology*.—American Text-Book; Huxley-Lee.

*Chemistry*.—Remsen; Roscoe; Harris' Qualitative Analysis; Purdy, Tyson or Whipple on Urine; Witthaus' and Becker's Toxicology; Tanner on Poisons; Mitchell's Dental Chemistry and Metallurgy.

*Materia Medica*.—Cushny; Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood; Hare; Potter; Gorgas' Dental Medicine.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

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1906/07

UNIVERSITY OF ILLINOIS

THIRD SERIES.

PRESIDENT'S OFFICE.

No. 1.

# Georgetown University Publication.

BULLETIN

OF THE

## SCHOOL OF MEDICINE

AND

## DENTAL DEPARTMENT

ANNOUNCEMENT FOR THE SESSION OF

1906-1907



WASHINGTON, D. C.

PUBLISHED BY GEORGETOWN UNIVERSITY.

QUARTERLY

[APRIL TO JUNE 1906.]

*Entered May 6th, 1904, at Washington, D. C. as second class  
matter under act of Congress of July 16, 1894.*

## Calendar for 1906-1907.

1906.

SEPT. 27, 28, and 29—Examinations for admission and re-examinations every day at 2 P. M.

OCT. 1—Lectures begin at 1:30 P. M.

NOV. 29—Thanksgiving Holiday.

DEC. 22—Christmas recess begins at 5 P. M

1907.

JAN. 3—Lectures resumed.

FEB. 22—Legal Holiday.

MARCH 27—Easter recess begins at 5 P. M

APRIL 3—Lectures resumed.

MAY 21—Lecture course completed.

MAY 23—Examinations begin.

JUNE 11—Commencement.

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## The Post-Graduate Medical School.

Believing that the National Capital presents many special advantages for graduate medical instruction, the leading members of the profession in Washington city have organized a Post-Graduate Medical School. The course of instruction will consist principally of clinics at the different hospitals of the city and of practical laboratory work. Didactic lectures will also be given during the regular course upon such branches as Preventive Medicine, Military Medicine and Surgery, Preventive Inoculations, Serum Therapy, whenever a sufficient number of students apply for such a course.

General George M. Sternberg, U. S. A., has been elected president of the faculty, and the Surgeon-Generals of the Army, Navy, Public Health, and Marine Hospital Service are members of the executive committee.

It is believed that the course of instruction will be especially valuable for the general practitioner and for those who intend to practice surgery, gynecology, ophthalmology, laryngology, or some other specialty. The special attention given to Preventive Medicine, to Tropical diseases, and to laboratory work in Bacteriology and Sanitary Chemistry will afford health officers and physicians who desire to enter one of the branches of the Government or Colonial service unusual advantages for perfecting themselves in the scientific studies which must serve as a foundation for their practical work.

Applicants for clinical and laboratory instruction may matriculate at any time. Circulars containing full information will be sent upon application to the secretary, DR. GEORGE M. KOBER, 920 H Street, N. W., Washington, D. C.



## GEORGETOWN UNIVERSITY.

PRESIDENT'S OFFICE

### EDUCATIONAL ADVANTAGES OF WASHINGTON.

Georgetown University, in the city of Washington, was chartered by Congress March 1st, 1815, and consists of the following departments :

DEPARTMENT OF ARTS AND SCIENCES.

[Undergraduate and Graduate.]

THE ASTRONOMICAL OBSERVATORY.

SCHOOL OF MEDICINE.

[Undergraduate and Graduate.]

GEORGE M. KOBER, M. D., Dean, 920 H street N. W.

DEPARTMENT OF DENTISTRY.

WILLIAM N. COGAN, D.D.S., Dean, 920 H street N. W.

SCHOOL OF LAW.

[Undergraduate and Graduate.]

HON. HENRY M. CLABAUGH, LL.D., Dean, 506-508 E street, Washington, D. C.

Each School or Department is under the direction of its own Dean, and each Faculty has the power of legislating on its own affairs, but this power can be exercised only in subordination to the President and Directors of the University, and subject to their approval.

### HISTORY.

The foundation of Georgetown College was projected as early as the year 1785, when the Rev. John Carroll, afterwards the first Archbishop of Baltimore, formed the plan and proposed it to his associates. On November 13, 1786, the Corporation of Roman Catholic Clergymen, in the chapter held at Whitmarsh, Md., adopted a series of "Resolves Concerning the Institution of a School," in which it ordered that a School should be erected at Georgetown, Md., and directed the sale of a piece of land belonging to the corporation, in order that the proceeds might be applied to the erection of the first building. Rev. Messrs. John Carroll, James Pellenz, Robert Molyneux, John Ashton, and Leonard Neale were appointed Directors.

Shortly afterward an appeal was issued, entitled "Proposals to Establish an Academy at Georgetown, Potowmack River, Maryland." In this circular it was stated that "Agreeable to the liberal Principle of our Constitution, the Seminary will be open to students of Every Religious Profession." In 1788 the



erection of the first building was undertaken; yet 1789 is commonly considered the year of the foundation of the College, as the deed of the original piece of ground was dated January 23 in that year. Students were not received before 1791. Upon the reorganization of the Society of Jesus in Maryland, in 1805, the Georgetown College, as it had already begun to be called, was transferred to the Fathers of that Society, under whose control and direction the University still remains.

An act of Congress, dated March 1, 1815, reads as follows:

“AN ACT

‘CONCERNING THE COLLEGE OF GEORGETOWN IN THE DISTRICT OF COLUMBIA.

“Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled, That it shall and may be lawful for such persons as now are, or from time to time may be, the President and Directors of the College of Georgetown, within the District of Columbia, to admit any of the students belonging to said College, or other persons meriting academical honors, to any degree in the faculties, arts, sciences, and legal professions, to which persons are usually admitted in other Colleges or Universities of the United States; and to issue in an appropriate form the diplomas or certificates which may be requisite to testify to the admission to such a degree.

“LANGDON CHEEVES,

*“Speaker of the House of Representatives.*

“JOHN GAILLARD,

*“President pro tempore of the Senate.*

“Approved March 1, 1815.

“JAMES MADISON.”

Two years later the power of granting degrees, thus acquired, was first exercised.

In 1833 the Holy See empowered Georgetown College to confer in its name, degrees in Philosophy and Theology.

The next step in the development of the College was the erection and equipment of a complete Astronomical Observatory in 1842, and in the following year the formal incorporation of the institution was effected by Congress.

The School of Medicine was opened in 1851, and the School of Law in 1870. The Graduate School was in existence as early as 1856, in which year it comprised four resident graduates. It has continued with varying degrees of success since that time, and in the year 1890 assumed a marked development. The Dental School was opened in 1901.

## LOCATION AND EXTRINSIC ADVANTAGES.

In its location at the Capital of the Nation, Georgetown University enjoys advantages which can hardly be overestimated, and which must necessarily increase with the growth of the country. Not only is the city, free as it is from the noise, dirt, and distracting surroundings of a great commercial center, most favorable to the tranquil and earnest pursuit of study, but it has an unparalleled educational equipment in the great scientific collections and libraries of the Government. According to Mr. Putnam, the Librarian of Congress, there are 34 governmental libraries, containing in the aggregate over two million books and pamphlets and over one-half million maps, manuscripts, music, and prints; this is a larger proportion of volumes per capita for public use than any other city in the world. By the authority of Congress all such facilities for research and illustration in the Governmental collections are made accessible to the scientific investigators and students of higher learning in the District of Columbia.

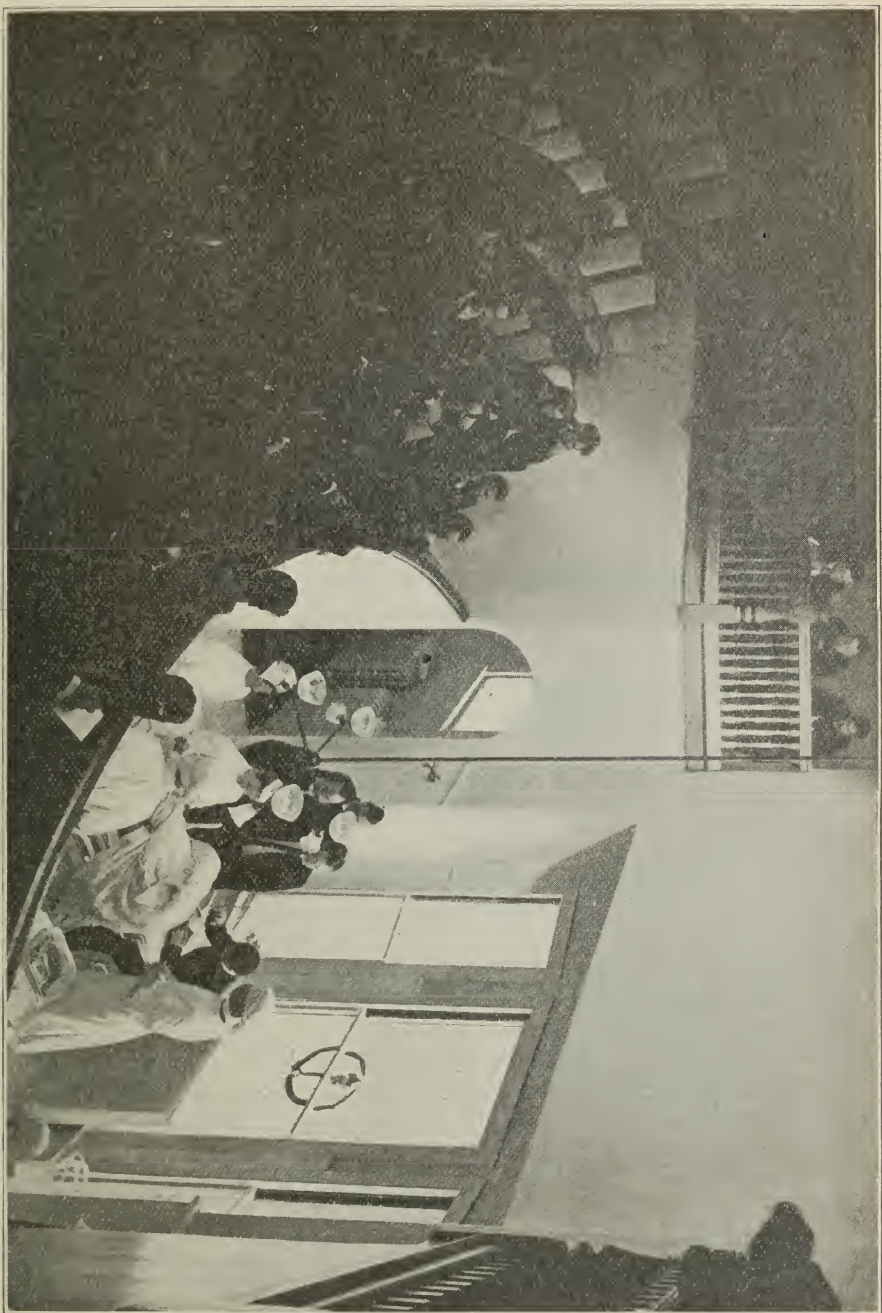
This provision applies to the Library of Congress, the National Museum, the Patent Office, the Bureau of Education, the Bureau of Ethnology, the Army Medical Museum, the Department of Agriculture, the Fish Commission, the Botanical Gardens, the Coast and Geodetic Survey, the Geological Survey, the Naval Observatory, several hospitals and other departments supplied with special libraries, laboratories and equipment for research. The administration of these bureaus brings together a large corps of scientific workers, and has already made Washington the great scientific as well as political center of the country. One consequence of these conditions is that the scientific societies are exceptionally numerous and flourishing. Even the presence of the National Government, with its executive, legislative and judicial machinery, is a most powerful agent of education; to be familiar as a matter of daily observation with the workings of the House of Representatives, the Senate, the Supreme Court and the Administration is a privilege and a training which cannot be too highly prized and which cannot be found elsewhere.

Of all these extrinsic facilities the various Faculties of Georgetown University make full use, and among her instructors are found not a few of the most eminent scholars and scientific men employed in the technical service of the Government. Her students receive the most cordial reception and careful assistance in their work in the various libraries, museums and scientific bureaus.

To the advantages enumerated above is added the atmosphere of study and research engendered by the presence of the many universities of which Washington is rapidly becoming the seat.



Georgetown University Hospital



Georgetown University Hospital Operating Amphitheatre.



## SCHOOL OF MEDICINE.

## FACULTY.

DAVID H. BUEL, S. J.,  
*President of Georgetown University.*

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 926 Seventeenth Street.

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 1600 T Street.

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 4 Jackson Place.

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 2107 Massachusetts Avenue.

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 1728 Columbia Road.

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 1601 Connecticut Avenue.

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*Professor of Principles and Practice of Surgery,*  
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*Associate Professor of the Theory and Practice of Medicine and Clinical Medicine.*  
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CHARLES R. LUCE, M. D.,	215 Second Street S. E.
CHARLES C. MARBURY, M. D.,	1121 Fourteenth Street.
LLEWELLYN ELIOT, A. M., M. D.	1106 P Street.

## CLINICAL PROFESSORS OF SURGERY.

HARRISON CROOK, M. D.,                      Fifteenth and L Streets.

THOMAS F. MALLAN, M. D., 820 Connecticut Avenue.

D. PERCY HICKLING, M. D.,  
*Also of Nervous Diseases and Electro-Therapeutics.*  
 1304 Rhode Island Avenue.

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I. S. STONE, M. D.,  
1449 Rhode Island Avenue.

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 1431 Rhode Island Avenue.

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2026 P Street.

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*Instructor in Embryology,*  
926 Seventeenth Street.

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*Prosecutor of Anatomy,*  
 1819 Adams Mill Road.

S. WICKES MERRITT, M. D.,  
*Assistant Demonstrator in Histology and Anatomy*  
 1204 North Capitol Street.

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F. L. BISCOE, M. D., The Farragut.

L. BRECKINRIDGE BAYNE, M. D., 1141 Conn. Ave.

H. HYLAND KERR, M. D., 1717 H Street, N. W.

RALPH A. HAMILTON, M. D., 924 Fifteenth Street.

ALFRED RICHARDS, M. D., 312 South Capitol Street.

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JOHN B. BRIGGS, M. D., 918 Seventeenth Street.

JOHN D. DIGGES, M. D., 61 1 Street N. W.

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2914 Fourteenth Street.

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938 R. I. Avenue.

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Government Hospital for the Insane.

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SAMUEL L. OWENS, M. D., 2418 Penna. Avenue.

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1335 Corcoran Street.

JOHN DUNLOP, M. D., (In Orthopedic Surgery.)  
1309 Connecticut Avenue.

LOUIS C. LEHR, M. D., (In Genito-Urinary Diseases.)  
1344 Nineteenth Street.

**ASSISTANTS TO THE PROFESSOR OF OBSTETRICS.**

THOMAS F. LOWE, A. B., M. D., 205 H Street N. W.

PRENTISS WILLSON, M. D., University Hospital.

**ASSISTANTS TO THE PROFESSOR OF GYNECOLOGY AND  
ABDOMINAL SURGERY.**

THOMAS F. LOWE, A. B., M. D.,

SAMUEL L. OWENS, M. D.

# ASSISTANTS TO THE PROFESSORS OF OPHTHALMOLOGY OTOLOGY, LARYNGOLOGY AND RHINOLOGY.

C. R. DUFOUR, PH. D., M. D.,	1343 L Street
MONTÉ GRIFFITH, M. D.,	The Farragut
LOUIS L. GREEN, M. D.,	1610 I Street
S. B. MUNCASTER, M. D.	907 Sixteenth Street.

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P. A. LOVERING, M. D.,  
Medical Director U. S. Navy,  
*Tropical Diseases.*

JOSEPH J. KINYOUN, PH. D., M. D.,  
Philadelphia, Pa.,  
*Immunity Serum—Therapy and Preventive Inoculations.*

REV. BENEDICT GULDNER, S. J.,  
*General and Medical Ethics.*

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## EXPENSES OF STUDENTS.

The following estimate of the expenses of a medical student is based upon actual experience:

	<i>Low.</i>	<i>Average.</i>	<i>Liberal.</i>
Matriculation (once only).....	\$5.00	\$5.00	\$5.00
*Tuition.....	150.00	150.00	150.00
Books.....	15.00	20.00	25.00
Room and Board.....	120.00	165.00	200.00
College incidentals.....	10.00	10.00	10.00
Other expenses, laundry, car fare, etc.....	35.00	50.00	60.00
	<hr/> \$335.00	<hr/> \$400.00	<hr/> \$450.00

Checks should be made payable to the School of Medicine Georgetown University.

For further information apply to

GEORGE M. KOBER, M. D., *Dean*,  
920 H Street, N. W.

Telephone Main 632.

H. B. MERRITT, *Curator*.

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\*The increased tuition fee applies to new students only

# **Georgetown University Hospital Staff.**

## **DEPARTMENT OF MEDICINE.**

Professor SAMUEL S. ADAMS, M. D., Chief.  
Professor J. DUDLEY MORGAN, M. D., Associate.  
JOHN D. THOMAS, M. D., Associate.  
EDWIN B. BEHREND, M. D., Associate.  
WM. GERRY MORGAN, M. D., Associate.  
LOREN B. T. JOHNSON, M. D. Assistant.  
THOMAS F. LOWE, M. D., Assistant.  
SAMUEL LOGAN OWENS, M. D., Assistant.  
ROY D. ADAMS, M. D., Assistant.

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WILLIAM C. GWYNN, M. D., Assistant.  
JOHN A. O'DONOGHUE, M. D., Assistant.  
ROY D. ADAMS, M. D., Assistant.  
JOHN DUNLOP, M. D., Assistant.  
EDWIN M. HASBROUCK, M. D., Assistant.  
LOUIS C. LEHR, M. D., Assistant.  
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SAMUEL LOGAN OWENS, M. D., Assistant.

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Sister MARY PAULINE, O. S. F.



## FOR STUDENTS OF MEDICINE.

### ANNOUNCEMENT FOR 1906-1907.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Thursday, September 27, 1906, and end on Saturday, May 27, 1907.

The demands of modern medical education are such that the Faculty has found it necessary to extend the hours of instruction, so that more time may be given to practical work in laboratories and hospitals. The instructions will, therefore, begin in the morning and continue *throughout the day*. Students are required to devote their entire time to the study of medicine.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual, and prepares graduates for the rigid examinations for admission into the Medical Corps of the Army, Navy, and Marine Hospital Service. Of the 29 applicants for the Army, Navy, and Marine Hospital Service, since 1898, 28 passed, and only one failed.

The building of this department is conveniently situated on H street, northwest, between Ninth and Tenth streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms, chemical, histological, bacteriological, and physiological laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

Congress, during the session of 1901, appropriated sufficient funds for the erection of a Laboratory in connection with the Marine Hospital Bureau for the investigation of infectious and contagious diseases and other matters pertaining to public health, and also enacted a law permitting the use of Government Laboratories for Post-graduate research work. Students may also be employed as assistants during the vacation months in these Laboratories. The new laboratories and hospitals of the Army and Navy and the Government Hospital for the Insane also offer excellent opportunities for instruction.

The great libraries and museums connected with the various

Government institutions at Washington afford advantages to the student that are unrivalled in America, and are equal, if not superior, to those in most European capitals. These collections are freely open to the public, and can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

## LIBRARIES.

The Library of Congress.....	1,100,000 vols.
The Library of the Surgeon-General's Office.....	140,539 vols.
The Library of the National Museum.....	16,000 vols.
The Library of the Museum of Hygiene.....	10,500 vols.
The Library of the Bureau of Ethnology.....	5,000 vols.
The Library of the Bureau of Education.....	30,000 vols.
The Library of the Department of Agriculture.....	25,000 vols.

## MUSEUMS, ETC.

The Army Medical Museum.  
 The Museum of Hygiene.  
 The United States National Museum.  
 The Museum of the Agricultural Department.  
 The Botanical Garden.  
 The United States National Zoological Park.

## REQUISITES FOR ADMISSION.

Creditable certificates of good moral character, signed by two physicians of good standing in the State, Territory, or District in which the applicant last resided.

The Association of American Medical Colleges has prescribed the following minimum requirement for admission to the medical course :

- (a) A bachelor's degree from an approved college or university.
  - (b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades, and for graduation not less than four years of study, embracing not less than two years (4 points) of foreign language, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.
  - (c) An examination in the following branches :
    - A. Required (18 points) ; Mathematics (4 points) ; English (4 points) ; History (2 points) ; Language (two must be Latin, 4 points) ; Science (taken from physics, chemistry, botany, zoology), 4 points.
    - B. Optional (to 12 points) ; English, 2 points ; History, 6 points ; Language, 6 points ; Manual Training, 2 points ; Mechanical Drawing, 1 point ; Natural Science (botany, biology, zoology), 2 points ; Physical Science (chemistry, physics), 2 points ; Trigonometry, 1 point ; Astronomy (1), Civics (1), Geology (1), Physical Geography (1), Physiology, and Hygiene (1), Political Economy (1).
- (One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

d) Certificates from reputable instructors recognized by the State board of medical examiners duly authorized by law or by the Superintendent of public instruction in States having no examining board may be accepted in lieu of any part of this examination.

SEC. 2. This examination must be conducted by or under the authority of the Board of Examiners or the superintendent of public instruction of the city or State in which the college is located. In no case shall it be conducted by any person connected with the faculty, medical or otherwise, of the institution to which the student is seeking admission.

SEC. 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

### ADVANCED STANDING.

Students who have attended one or more terms at any other medical college in good standing will be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that they are qualified intelligently to avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Thursday, September 27; Friday, September 28 and Saturday, September 29, 1906, at 2 P. M.

### METHOD OF INSTRUCTION.

The course of instruction will consist of didactic and clinical lectures, recitations, demonstrations, dissecting, laboratory work, and other practical manipulation. The students will be divided into four classes, called respectively, the First, Second, Third, and Fourth.

Class recitations will be conducted by members of the Faculty and by instructors.

A record of these recitations will be kept, and the average will be credited to each student in summing up after the final examinations at the end of the session.

Each student shall be obliged to attend 80 per cent. of the exercises in every annual course of study for which he seeks credit. No student shall be given credit on examination unless he attains a grade of at least 75 per cent., or its equivalent in any other marking system. And no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

The following is a sketch of the several courses of instruction :

## ANATOMY.

PROF. FRANK BAKER, A. M., PH. D., M. D.

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

## OSTEOLOGY.

EMORY W. REISINGER, M. D.,

Assistant to the Professor of Anatomy.

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like the study of the softer parts in the dissecting room, and is an indispensable preliminary to that work.

## PRACTICAL ANATOMY.

EMORY W. REISINGER, M. D.,

Demonstrator.

The dissecting room will be open daily for students, after October 15th, and the Demonstrator or his Assistants will be present. During the session there will be given special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body.

During each session every student of the First and Second Classes will be required to dissect all regions of the human body.

## HISTOLOGY.

R. S. BLACKBURN, M. D.

In this course, which embraces one full session, students of the first year are taught the theory and practical use of the microscope and the elements of microscopic technique, in addition to the minute anatomy of organs and tissues. Instruction is given in the well-equipped laboratory, and the course is chiefly devoted to practical laboratory work. It is the aim to cover thoroughly the subject of animal histology, the human tissues being compared with those of the lower vertebrates. The application of histology to physiology and pathology is duly considered. Students are required to prepare organs for examination, beginning with fresh specimens and ending with mounted sections, and to make drawings and descriptive notes of the microscopical appearance.





Histological Laboratory.

### EMBRYOLOGY.

ROY D. ADAMS, M. D.

This course will consist of lectures and laboratory work. It will begin with spermatogenesis and oogenesis, and then taking up the development after fertilization will proceed to the formation of the rudiment of the embryo, and conclude with a consideration of organology.

### PHYSIOLOGY.

PROF. JOSEPH S. WALL, M. D.

One of the Visiting Physicians to the Providence and Foundling's Hospital. Dispensary Physician, the Children's Hospital.

This course will consist of lectures upon General and Special Physiology, together with recitations, frequent examinations, demonstrations, and laboratory work.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

### MATERIA MEDICA AND THERAPEUTICS.

PROF. WILFRED M. BARTON, M. D.

The course on Materia Medica and Therapeutics will cover three years, and will consist of a combination of didactic and laboratory instruction. During the first year the student will be made acquainted by actual demonstration with the physical



and chemical characteristics of the drugs of the Pharmacopoeia, their doses, compatibilities and incompatibilities; also weights and measures, elementary pharmacy, etc., and will be taught so much of the actions and uses of drugs as is necessary to illustrate their importance. During the second and third years the student will be taught by lectures and practical demonstrations the physiological action of drugs, and an effort will be made to fix the most important elements of pharmacodynamics by laboratory exercises. The attention of the student will be directed to the systematic study of the application of drugs to the treatment of disease, a practical knowledge of which is the ultimate aim of his course in pharmacology.

### CHEMISTRY AND TOXICOLOGY.

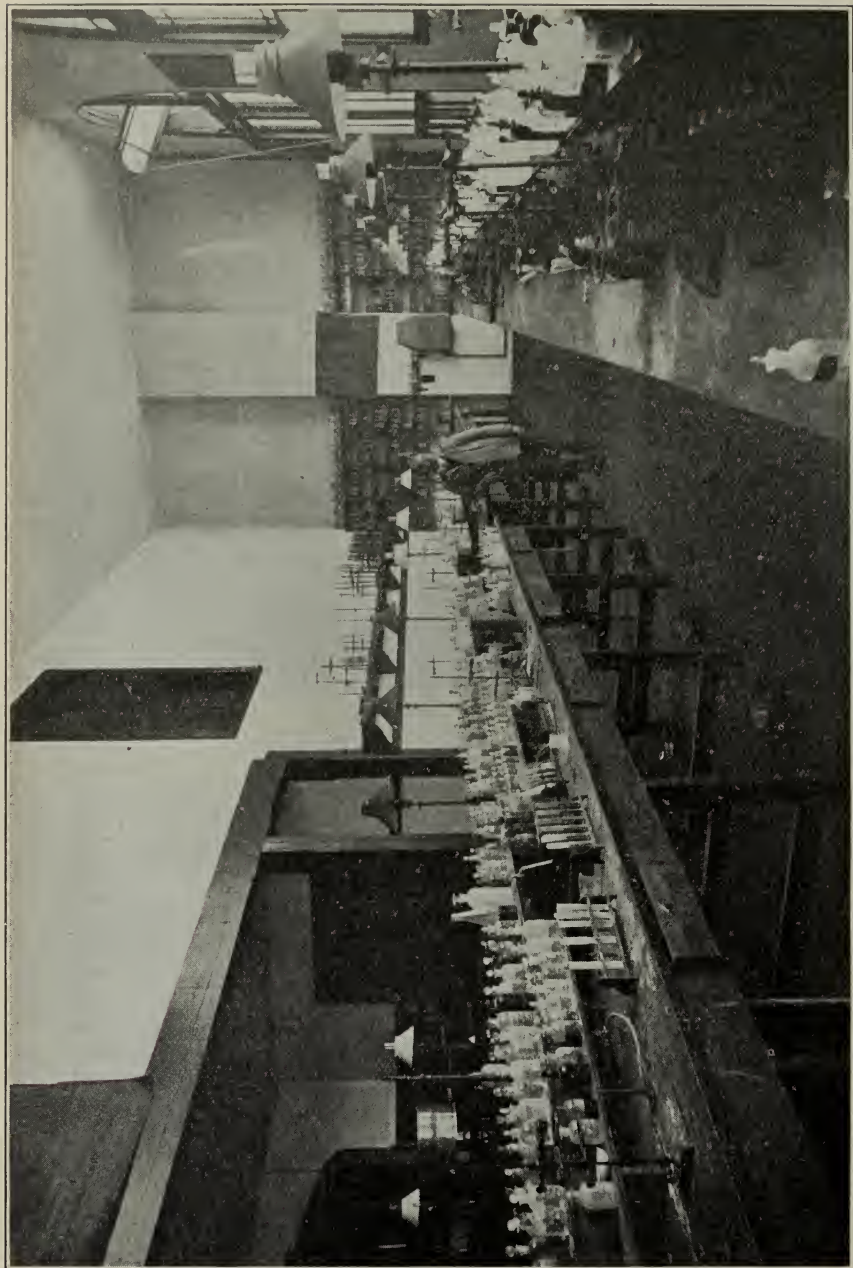
PROF. JOHN D. HIRD, A. M., LL. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, together with the examination of soils, will also receive attention.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonisms is briefly considered, while the evidence of poisoning as furnished by chemical analysis is considered more in detail.



Chemical Laboratory.

## PHYSICS.

MAHLON ASHFORD, M. D.,

Instructor in Physics.

A special course in physics as applied to medicine and surgery will be given during the first year. It will be illustrated by oral instruction and by laboratory experiments.

## GENERAL PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first half year general considerations of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second half year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, feces, gastric contents, sputum, pathological exudates, etc., with special reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

## MEDICAL ZOOLOGY.

WILLIAM H. HOUGH, M. D.,

Physician Government Hospital for the Insane.

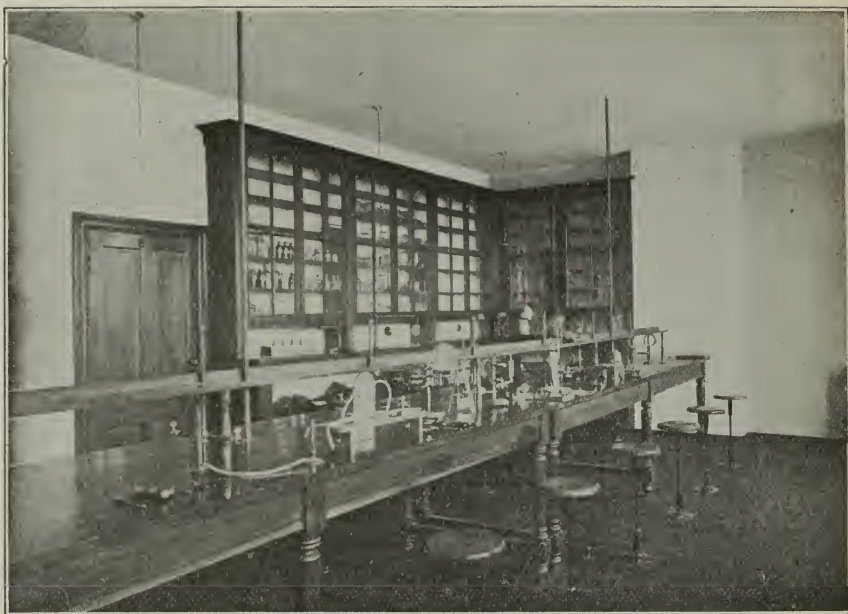
This course comprises a series of twelve lectures on the animal parasites found in the human subject. The lecturer will describe the anatomy, life history of the different forms, and the best means for treatment and prevention. The lectures will be supplemented by practical laboratory exercises in microscopical examinations of meat for *Trichinella spiralis*, and of feces, for determining the presence of parasites.

## SPECIAL PATHOLOGY AND MORBID ANATOMY.

PROF. I. W. BLACKBURN, M. D.,

Pathologist to the Government Hospital for the Insane.

This course will be devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to the consideration of tumors and morbid growths in general and in



Physiological Laboratory.

connection with special pathology; to the pathology of mental diseases; and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes. The course will be supplemented by lectures, demonstrations, and practical necropsy work at the Government Hospital for the Insane.

#### **SURGICAL PATHOLOGY AND MILITARY SURGERY.**

PROF. W. C. BORDEN, M. D., F. R. M. S.,

Major and Surgeon Medical Department, U. S. A., Commanding General Hospital  
Washington Barracks, D. C.

This course consists of an annual course of didactic lectures freely illustrated by plates, drawings and specimens adapted to the purpose of teaching modern views and progress in surgical pathology and therapeutics, and the principles of military surgery as applied to the management of gunshot wounds in civil practice.

#### **PHYSICAL DIAGNOSIS.**

JOHN D. THOMAS, A. B., M. D.,

Associate Physician, Georgetown University Hospital, and at the Central  
Dispensary and Emergency Hospital. Visiting Physician to the Home of  
Incurables.

In addition to the didactic lectures on the principles of physical diagnosis, at the college, there will be demonstrations to the students at Dr. Thomas' very large clinic at the Central Dispensary and Emergency Hospital, the University Hospital and the



Home for Incurables. The class will be divided into sections, each member of which will make examinations under the personal supervision of Dr. Thomas. Thus they will be made familiar with one of the most important branches of medical practice.

## THEORY AND PRACTICE OF MEDICINE AND DISEASES OF CHILDREN.

PROF. SAMUEL S. ADAMS, A. M., M. D.,

Attending Physician to Georgetown University and Children's Hospitals; Consulting Physician to Government Hospital for Insane.

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by the various clinics to which the student will have access, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

## PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.,

One of the Attending Surgeons at the Emergency Hospital, and Chief Surgeon Georgetown University Hospital; Consulting Surgeon Government Hospital for Insane.

The course in surgery extends over two and one-half years. Instruction is given by didactic lectures, recitations, and demonstrations at clinics, which are held at various hospitals and dispensaries, which afford material in abundance.

Students are instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of the principal surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopædic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

## OBSTETRICS.

PROF. HENRY D. FRY, M. D.,

Obstetrician, Georgetown University and Columbia Hospitals; Gynecologist to Garfield Hospital.

The course will be graded, and will consist of classified lectures comprising the whole subject, of recitations and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended three or more cases of midwifery, of which



he was required to keep records and present written reports. Every facility will be given to obtain experience in the practical workings of this department, by means of bedside instruction. Special attention will be devoted to abdominal palpation, pelvimetry, digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of forceps, version, etc.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state.

The great value of antiseptic principles as applied to obstetric practice will be urged.

An operative course on the Budin-Pinard manikin will also be given.

### GYNECOLOGY AND ABDOMINAL SURGERY.

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

One of the Consulting Physicians to the Central Dispensary and Emergency Hospital; Consulting Gynecologist to the Woman's Dispensary and the Government Hospital for Insane; Surgeon in Charge of his own Hospital for Women, and of Gynecology and Abdominal Surgery in the Georgetown University Hospital.

Modern gynecology will be taught in didactic lectures, freely illustrated by plates and blackboard drawings, recitations, and also a small class at private and public operations, in four different hospitals, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery will receive special attention.

Advanced students will be given an opportunity to witness the preparations for aseptic operations, and to assist in their performance when practicable.

### OPHTHALMOLOGY.

PROF. WILLIAM H. WILMER, M. D.,

Ophthalmologist to Georgetown University, Episcopal Eye, Ear and Throat Hospital, and to the Central Dispensary and Emergency Hospital.

The course begins with lectures on the anatomy of the eye, illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and the proper methods of examining the eye. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye are wholly clinical, illustrative cases being taken from Dr. Wilmer's extensive service at the Episcopal Hospital, Central Dispensary and Emergency Hospital, and at the University Hospital. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible. More than two thousand new cases of eye diseases are treated annually at the Episcopal Hospital alone. Every important operation on the eye is performed in the presence of each section.

Drs. Dufour, Griffith, Green and Muncaster will give clin-

ical demonstrations at the various hospitals with which they are connected.

### LARYNGOLOGY, RHINOLOGY AND OTOTOLOGY.

PROF. WALTER A. WELLS, M. D.,

Surgeon in charge of Throat and Ear Diseases, Garfield Hospital; Associate Attending Physician Episcopal Eye, Ear and Throat Hospital.

The course in otology will be chiefly clinical, and will be conducted with a view of familiarizing the students with the various forms of ear affections met with in actual practice, and instructing him in modern methods of diagnosing and treating them. After some preliminary notice of the history of these specialties, followed by a thorough demonstration by means of charts and specimens of the anatomy and physiology of these organs the subject will be taught by actual observation and study of the disease by contact with the patients.

The class will be divided into sections, so that each student may be personally taught the use of the instruments, and drilled in the methods of both subjective and objective examination of the patients. In the course of the year ample opportunity will be afforded of witnessing the major and minor operations which have to be performed in connection with these specialties.

### HYGIENE AND DIETETICS.

PROF. GEORGE M. KOBER, M. D.,

Consulting Physician to Children's Hospital, Washington Asylum Hospital, Providence Hospital and Central Dispensary and Emergency Hospital.

The course on hygiene and dietetics will include lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages, and condiments, morbid and infected food products; dietetics in health and disease; the skin, bath and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

### STATE MEDICINE.

PROF. W. C. WOODWARD, M. D., LL. M.,

Health Officer District of Columbia.

The course on State Medicine will consist of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon the students in their fourth year.

### DERMATOLOGY.

PROF. J. C. MCGUIRE, A. M., M. D.,

Dermatologist to Georgetown University Hospital.

The preliminary course will include a review of the history of dermatology, the minute anatomy of the skin, general pathology,

etiology, and diagnosis of cutaneous affections, followed by lectures upon individual diseases illustrated by plates. A clinical course will be given to advanced students, as it is only at the bedside that a practical knowledge of this important branch of medicine can be obtained.

### MENTAL AND NERVOUS DISEASES.

PROF. WILLIAM A. WHITE, M. D.,

Superintendent of the Government Hospital for the Insane.

This course will consist of didactic and clinical lectures. Lectures are held on Neurology before the Christmas vacation at the Medical College and after the Christmas holidays on Psychiatry at the Government Hospital for the Insane, which accommodates about 3,000 patients. Members of the Third and Fourth Classes will be admitted to them. Students will have opportunity to visit the wards of the Hospital, and each lecture will be illustrated by numerous cases, giving in great variety all the forms of insanity and diseases of the nervous system which are usually seen in the practice of the general practitioners in medicine.

### DISEASES OF THE NERVOUS SYSTEM AND ELECTROTHERAPEUTICS.

PROF. D. PERCY HICKLING, M. D.,

Neurologist to the Providence Hospital and Physician in charge of the Washington Asylum Hospital.

This course is largely clinical, and will embrace those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course of Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology, with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures will be amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

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### Clinical Instruction and Advantages.

#### GEORGETOWN UNIVERSITY HOSPITAL.

*Corner of Thirty-fifth and N Streets N. W.*

Attendance upon clinical instruction is obligatory for students of the third and fourth years.

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school.

Owing to the favorable location of the Hospital, the Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics will be given by the following professors of this school and by other members of the Hospital and Dispensary staff in the new amphitheatre, which accommodates over 180 students:

*Surgical*.—Dr. Vaughan.

*Medical*.—Dr. Adams.

*Gynecological*.—Dr. Johnson.

*Diseases of the Eye and Ear*.—Drs. Wilmer and Dufour.

*Diseases of the Throat, Chest and Nose*.—Dr. Murray.

*Dermatology*.—Dr. McGuire.

#### PROVIDENCE HOSPITAL.

*Capitol Hill, Corner Second and D Streets, S. E.*

This large general hospital, situated in an easily accessible part of the city, is supported in part by the General Government. It contains over one hundred beds. The medical and surgical wards are usually well filled with interesting cases. In the new surgical amphitheater, one of the finest in the country, every provision has been made to fully carry out antiseptic surgery. Accommodations have been provided for over 150 students. Regular clinics are given by the following Professors:

*Surgical*.—Drs. Crook and Mallan.

*Clinical Medicine*.—Drs. Vincent, Luce, and Marbury.

*Gynecological*.—Dr. Cuthbert.

*Neurological*.—Dr. Hickling.

Drs. Magruder and Kober are on the Consulting Staff.

#### CHILDREN'S HOSPITAL.

*W Street, between Twelfth and Thirteenth Streets, N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to observe and comprehend thoroughly the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2:30 to 4:30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Adams and Griffith, who are on the Staff, will give clinical instruction at this hospital. Drs. Johnson and Kober are on the Consulting Staff.

#### CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.

*Fifteenth Street and Ohio Avenue, N. W.*

During the last year over 15,000 patients were treated here, and over 2,200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As



a large proportion of the serious cases of accident that occur in the city are first brought to this hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The new building just completed offers greatly improved facilities for clinical instruction, and the ambulance service and casualty wards will afford special advantages for studying traumatic and operative surgery.

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of practical bacteriology, pathology and Röntgen ray work in association with surgery and medicine. Drs. Johnson, Magruder and Kober are on the Consulting Board.

Regular clinics are given by the following Professors of this school and other members of the staff:

*Surgical*.—Dr. Vaughan.

*Diseases of the Eye and Ear*.—Drs. Wilmer, Dufour and Muncaster.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose*.—Dr. Murray.

*Medical*.—Dr. J. D. Morgan.

#### GARFIELD HOSPITAL.

*Florida Avenue and Tenth Street, N. W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical*.—Dr. J. D. Morgan.

*Obstetrical and Gynecological*.—Dr. H. D. Fry.

In all the above Hospitals the positions of Resident and Assistant Resident Physician are open to competitive examination to graduates of this school, who last year secured fifteen out of eighteen available positions.

In addition to the foregoing, clinics will be given by—

Dr. William A. White, *Mental and Nervous Diseases* at Government Hospital for Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Drs. H. D. Fry and Wm. Sprigg, *Obstetrical* Columbia Hospital.

Dr. Wm. C. Borden, *Surgical*, U. S. General Hospital, Washington Barracks.

Dr. D. Percy Hickling, *Neurological, Medical and Surgical*, Washington Asylum Hospital.

Dr. Eliot, special cases of small pox.

#### EXAMINATIONS.

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.



At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics, physiology and materia medica.

The *Second Class* upon anatomy, physiology, chemistry and toxicology, urinalysis, therapeutics, bacteriology, pathology, minor surgery.

The *Third Class* upon therapeutics, the practice of medicine, surgery, obstetrics, gynecology, general pathology, special pathology and morbid anatomy, medical zoology, surgical pathology, mental and nervous diseases, and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and physical diagnosis, ophthalmology, and otology, state medicine, mental and nervous diseases, dermatology, electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

### RE-EXAMINATIONS.

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session, and students will not be permitted to advance to higher classes if they have more than two conditions in the previous year's work after such re examination. These conditions must be passed off before the end of the school year on which the student enters; that is to say, the conditions of the first year must be passed off before the end of the second year, and the conditions of the second year must be passed off before the end of the third year; but no student will be permitted to enter the fourth year until all conditions of the third year shall have been removed.

### REQUIREMENTS FOR GRADUATION.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction in four calendar years, each annual course to have been of not less than thirty teaching weeks' duration in some recognized medical school, the last of which shall have been delivered in this institution, and no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

### FEES.

Matriculation (payable but once).....	\$5 00
Tuition, each year.....	150 00
Graduation fee.....	10 00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to make an annual deposit of \$10.00 to cover loss, breakage or damage to the property of the school.

This deposit, less the charges made against it, is refunded to the student upon his withdrawal.

#### FEEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs .....	\$20 00
Practical anatomy, chemistry, including material.....	25 00
Didactic and laboratory course in histology, pathology or bacteriology, each.....	25 00
Operative surgery on the cadaver, per course .....	25 00

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing.

A student repeating a course for any reason will be charged full fees for that course.

The increased tuition fee applies to new matriculates only.

#### SCHOLARSHIP.

A competitive examination of candidates to fill the Ethelbert Carroll Morgan free scholarship will be held on Thursday, September 27, 1906, at 2 P. M. Applications for the same must be in the hands of the Dean before September 10th.

### Degrees Conferred, 1905.

#### DEGREE OF M. D.

Bailey, Rozier C.....	District of Columbia.
Brennan, John F.....	Connecticut.
Briscoe, John P., Jr.....	District of Columbia.
Esch, Victor H.....	District of Columbia.
Griffith, Charles I.....	District of Columbia.
Harrison, William B.....	Mississippi.
Hayden, Reynolds.....	District of Columbia.
Hunter, W. Myers.....	North Carolina.
Jarboe, Jacob P.....	Maryland.
Johnson, Paul Bowen Alden.....	District of Columbia.
Jones, George Wilson.....	Maryland.
Kearney, James I.....	Pennsylvania.
Kennedy, William J.....	West Virginia.
Nunez, Manuel I.....	Peru.
Olesen, Robert.....	Minnesota.
Pargon, Augustus Joseph A.....	New York.
Powers, Edward Parnell.....	Massachusetts.
Ready, Michael I.....	District of Columbia.
Romaine, Frank William.....	District of Columbia.
Schneider, Carl Elwin.....	Virginia.
Sullivan, Robert Y.....	District of Columbia.
Taylor, Charles Benjamin.....	California.
Tobin, Richard Francis.....	District of Columbia.
Willson, Prentiss.....	District of Columbia.
Wollenberg, Robert A. C.....	Michigan.

#### DEGREE OF D. D. S.

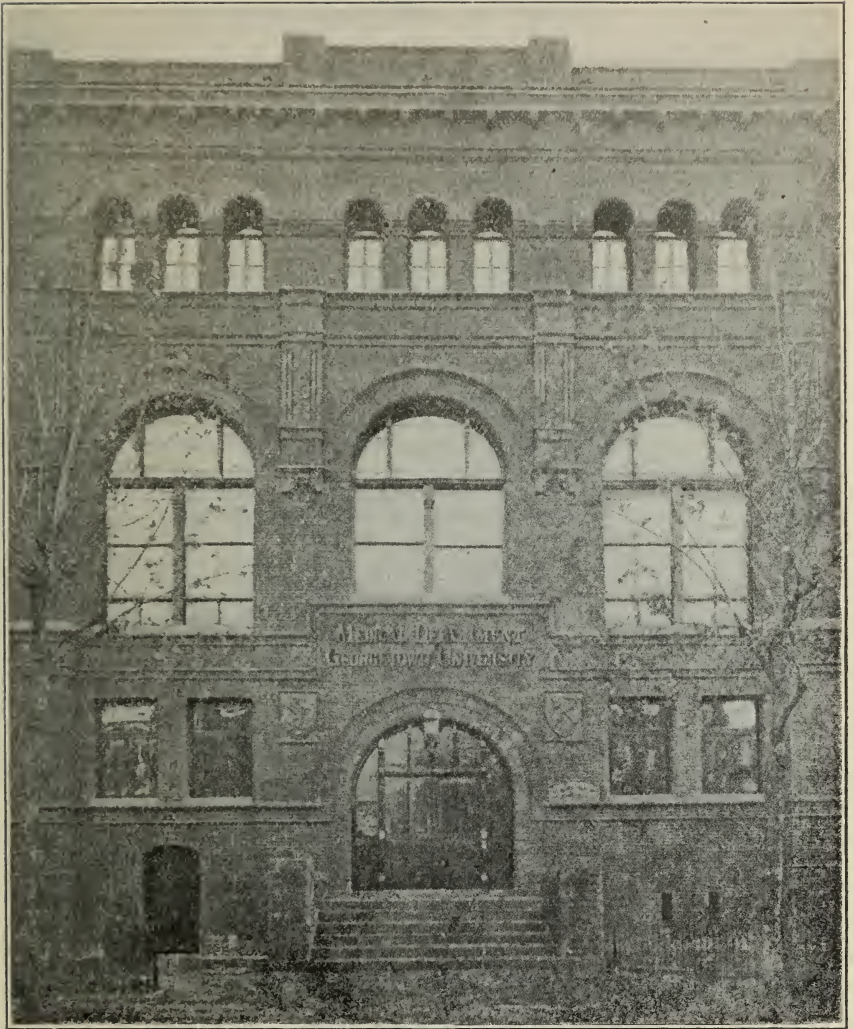
Hart, James H.....	Massachusetts.
Jaffe, Saul Sidney.....	Russia.
Kuehn, Otto Frederick.....	Indiana.
McDonald, Richard Francis.....	New Hampshire.
Perry, Charles Frederick.....	District of Columbia.
Reilly, Joseph A.....	Massachusetts.

## Matriculates 1905-1906.

Acker, Albert E.....	District of Columbia.
Allen, John.....	District of Columbia.
Anderson, Paul.....	Illinois.
Banfield, Charles P.....	Wisconsin.
Barrett, George T.....	Pennsylvania.
Barry, Joseph F.....	New York.
Bastion, J. Edward.....	Massachusetts.
Beistle, Matthew, J.....	Michigan.
Blaine, Robert G.....	District of Columbia.
Blackistone, J. C.....	District of Columbia.
Boehs, Charles J.....	District of Columbia.
Boland, Martin.....	Massachusetts.
Breckinridge, Scott G.....	District of Columbia.
Burke, Fred B.....	Michigan.
Burke, Joseph P.....	Pennsylvania.
Butler, Francis J.....	Massachusetts.
Byrnes, Bernard L.....	New York.
Byrne, John F.....	Rhode Island.
Camalier, Franklin A.....	Maryland.
Canaris, Lawrence V.....	Hawaii.
Cassidy, Louis T.....	Connecticut.
Chapin, Harry B.....	Rhode Island.
Cleary, T. J.....	New York.
Collins, Joseph H.....	Pennsylvania.
Connor, W. P.....	Ohio.
Conrad, Thomas K.....	Virginia.
Cooney, Martin J.....	Massachusetts.
Coyle, William E.....	Connecticut.
Craig, A. E.....	District of Columbia.
Croghan, Francis E.....	Rhode Island.
Dickinson, Dwight, Jr.....	District of Columbia.
Dougherty, Gerald.....	Delaware.
Drennan, Lawrence.....	Virginia.
Drew, Harry C.....	New York.
Dunn, Robert D.....	Rhode Island.
Durney, Charles P.....	West Virginia.
Elexander, George W.....	Rhode Island.
Espinosa, Ernesto.....	Mexico.
Flaherty, John E.....	Connecticut.
Flournoy, E. S.....	District of Columbia.
Foote, John A.....	Pennsylvania.
Frey, Joseph L.....	New York.
Gallagher, Nicholas A.....	Massachusetts.
Gannon, James A.....	District of Columbia.
Gaynor, Hubert E.....	West Virginia.
Glennan, Kenneth R.....	Maryland.
Griffin, John C.....	Pennsylvania.
Guinan, Joseph P.....	New York.

Hampton, George R.....	Rhode Island.
Healy, Charles B.....	Massachusetts.
Heiser, L. J.....	District of Columbia.
Hermesch, Harry R.....	Indiana.
Hopkins, J. S.....	District of Columbia.
Humphrey, Robert L.....	Virginia.
Jorss, Hans.....	District of Columbia.
Kane, John F.....	Pennsylvania.
Kelleher, J. Edward.....	Massachusetts.
Kennelly, Edward M.....	Massachusetts.
Kirby, William P.....	District of Columbia.
Larkin, P. Edward.....	New York.
Laub, Raymond G.....	Rhode Island.
Light, Given A.....	Pennsylvania.
Lind, John E.....	District of Columbia.
McCannel, Alexander J.....	North Dakota.
McDermid, Claude E.....	New York.
McGarrell, John J.....	West Virginia.
McGovern, Edward J.....	Rhode Island.
McKagney, John F.....	Delaware.
McLaughlin, James W.....	Pennsylvania.
Malabre, A. L.....	New York.
Maloney, John M.....	Massachusetts.
Martell, Leon A.....	Massachusetts.
Mayock, Peter P.....	Pennsylvania.
Moore, George S.....	District of Columbia.
Mulvanity, Albert F.....	New Hampshire.
Mulvey, William A.....	Rhode Island.
Murphy, Daniel J.....	Massachusetts.
Murrin, Joseph S.....	Pennsylvania.
Neill, Thomas E.....	Virginia.
Nussa, Rafael L.....	Porto Rico.
O'Hara, James F.....	Pennsylvania.
Pearson, John M.....	District of Columbia.
Penichet, J. Marian.....	Cuba.
Quinn, James H.....	Massachusetts.
Reidt, Urban H.....	Pennsylvania.
Reynard, Walter A.....	New York.
Reilly, J. Victor.....	New York.
Reynolds, George E.....	Massachusetts.
Sacks, Samuel.....	District of Columbia.
Schreiber, Henry R.....	District of Columbia.
Sheridan, Frank J., Jr.....	Iowa.
Stuart, Daniel D. V., Jr.....	New York.
Sullivan, James F.....	Rhode Island.
Sult, C. W.....	Virginia.
Sweeney, Michael T.....	Massachusetts.
Swetnam, Ford H.....	Virginia.
Taylor, Edgar C.....	Louisiana.
Turton, William E.....	District of Columbia.
Van Emon, Carl G.....	District of Columbia.
Verbrycke, J. Russell, Jr.....	District of Columbia.
Winter, Frank E.....	Maine.
Woisard, Ireney J.....	Connecticut.





Medical Department Building.



## DENTAL DEPARTMENT.

### FACULTY.

REV. DAVID HILLHOUSE BUEL, S. J.,  
*President of Georgetown University.*

F. H. SHULTZ, D. D. S.,  
*Vice-President and Professor of Operative Dentistry.*

WILLIAM N. COGAN, D. D. S.,  
*Dean of the Faculty, Professor of Dental Technics.*

GEORGE M. KOBER, M. D.,  
*Treasurer of the Faculty.*

SHIRLEY W. BOWLES, D. D. S.,  
*Professor of Prosthetic Dentistry and Orthodontia.*

H. JEROME ALLEN, M. D., D. D. S.,  
*Professor of Dental Medicine and Pathology.*

JESSE RAMSBURGH, A. M., M. D.,  
*Professor of Oral Surgery.*

FRANK BAKER, A. M., M. D., PH D.,  
*Professor of Anatomy.*

JOHN D. HIRD, A. M., LL. M.,  
*Professor of Chemistry and Toxicology.*

EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology.*

WILFRED M. BARTON, M. D.,  
*Professor of Materia Medica and Therapeutics.*

JOSEPH S. WALL, M. D.,  
*Professor of Physiology.*

### SPECIAL LECTURERS AND ASSISTANTS.

GEORGE E. HAMILTON, LL. D.,  
*Dental Jurisprudence.*

PAUL W. EVANS, A. B., D. D. S.,  
*Special Lecturer on Dental Ceramics.*

L. F. DAVIS, M. D., D. D. S.,  
*Special Lecturer on Anaesthesia and Extraction, and Histology.*

G. HARRIS WHITE, D. D. S.,  
*Instructor in Metallurgy and Assistant in Dental Histology.*

A. J. WATLING,  
*Special Lecturer.*

EDWIN R. HODGE, M. D.,  
*Assistant to Chair of Anatomy.*

ALFRED RICHARDS, M. D.,  
*Assistant to Professor of Physiology.*

THOMAS S. LEE, A. B., M. D.,  
*Assistant to Professor of Physiology.*

JOHN B. BRIGGS, B. S., M. D.,  
*Assistant to Professor of Physiology.*

MAHLON ASHFORD, M. D.,  
*Instructor in Physics.*

#### DEMONSTRATORS.

BRUCE L. TAYLOR, D. D. S.,  
*Superintendent of Laboratories and Clinics.*

G. HARRIS WHITE, D. D. S.,  
*Operative Technics.*

J. T. McCLANAHAN, D. D. S.,  
*Demonstrator Prosthetic Dentistry.*

S. S. JAFFE, D. D. S.,  
*Demonstrator Crown and Bridge Work.*

CARL MESS, D. D. S.,  
*In Charge of University Hospital Infirmary.*

G. W. BOYNTON, D. D. S.,  
*Demonstrator Operative Dentistry.*

FREDERICK I. BARTLETT, D. D. S.,  
*Demonstrator Prosthetic Dentistry.*

A. L. GARABEDIAN, D. D. S.,  
*Prosthetic Dentistry.*

#### CLINICAL STAFF.

W. W. EVANS, M. D., D. D. S., Washington, D. C.

J. CURTISS SMITHE, D. D. S., Washington, D. C.

B. HOLLY SMITH, M. D., D. D. S., Baltimore, Md.

CYRUS M. GINGRICH, D. D. S., Baltimore, Md.

## DENTAL DEPARTMENT.

### REQUISITES FOR ADMISSION.

The Dental Department conforms to the rules and regulations of the National Association of Dental Faculties, of which it is a member, as well as to those of the National Association of Dental Examiners.

In compliance with the requirements of the Board of Regents of the University of the State of New York and of the Illinois State Board of Dental Examiners, Candidates for admission must hereafter have a minimum preliminary education of not less than graduation from an accredited High School or its equivalent. The preliminary examination will not be required of an applicant who can show that he has covered the work of such examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course of recognized institutions.

Those presenting certificates of examination for advanced standing from other reputable dental colleges of equal requirements will be admitted to the corresponding higher class without further examination.

The preliminary examinations will be held at the college building on Thursday, September 27, Friday, September 28, and Saturday, September 29, and the regular session will begin Monday, October 1st, 1906, and end May 31, 1907.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless such delay is due to sickness, which must be vouched for by the certificate of a reputable practicing physician. In such case the date of admission shall not be later than twenty days from the opening day.

Students must continue in attendance until the close of the session in order to obtain credit for the full term.

### METHODS OF INSTRUCTION.

The course of instruction will consist of didactic lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instruction. The number of students taken in each class allows each member to come into close contact with the professors, and insures the most thorough individual instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstrations by the instructors begins with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.

THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating-rooms*, unequalled in point of lighting, heating, and conveniences. They are furnished with all the requirements of such apartments. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anesthetics, for the extraction of teeth; also one for taking impressions, occlusions, and doing work requiring the use of plaster or wax. The preparation and administration of sulphuric ether and nitrous oxide during the session familiarizes students with these varied agents.

There is also a department of Oral Surgery attached to the Georgetown University Hospital, where students have the privilege of witnessing all the operations pertaining to cleft palate, hare-lip, fractured maxilla, empyema of antrum, etc. Both infirmaries are under the immediate and continuous direction of a corps of competent demonstrators, who are always present to instruct and assist the students in their work. In the departments the student is taught the art of operative and prosthetic dentistry. The press of patients is very great, and the opportunities for practice unequalled. The student not only witnesses every kind of dental manipulation as practiced by the experienced, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session, and, indeed, is considered as the only factor essential to becoming a competent dental practitioner.

NO STUDENT WILL BE ALLOWED TO OPERATE IN THE INFIRMARY unless provided with the necessary instruments, a list of which may be obtained on application to the demonstrator in charge, with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

The operating-rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each day during the session.

### CURRICULUM.

The instruction embraces a graded course of three years, each course followed by examinations thereon.

Punctual attendance upon the lectures and clinics is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study

## FIRST YEAR.

<i>Lectures and Recitations.</i>	<i>Laboratory.</i>
Anatomy.....	4 hours.....As Assigned.....
Osteology .....	2 hrs. for 3 mos.
Histology, General and Dental .....	4 hours.....
Materia Medica.....	2 hours.....1 hour.....
Chemistry.....	3 hrs. for 3 mos. 3 hrs for 3½ mos...
Physics .....	1 hour
Operative Technics.....	1 hour.....12 hours.....
Prosthetic Technics.....	1 hour.....12 hours.....
Operative Dentistry .....	2 hours.....2 hours.....
Prosthetic Dentistry.....	2 hours.....2 hours.....
Physiology.....	3 hours .....

## SECOND YEAR.

Anatomy.....	4 hours.....As assigned .....
Physiology .....	4 hours .....
Therapeutics .....	3 hours .....
Chemistry.....	3 hrs. for 3 mos ...3 hrs. for 3 mos...
Bacteriology.....	12 hrs. for 2 mos..
Operative Dentistry.....	2 hours .....2 hours.....
Prosthetic Dentistry.....	2 hours.....2 hours.....
Oral Surgery .....	2 hours.....
Dental Pathology.....	1 hour.....1 hour.....
Anaesthesia and Extraction.....	1 hour. ....
Infirmiry Practice.....	

## THIRD YEAR.

General Pathology.....	3 hours.....3 hours .....
Oral Surgery.....	2 hours.....
Dental Pathology.....	1 hour.....1 hour.....
Prosthetic Dentistry.....	2 hours .....2 hours .....
Operative Dentistry.....	2 hours.....2 hours .....
Metallurgy .....	1 hour.....
Dental Medicine .....	1 hour.....
Anæsthesia and Extraction.....	1 hour.....
Orthodontia .....	1 hour.....1 hour.....
Ceramics.....	1 hour.....1 hour.....
Infirmiry Practice	



## COURSE OF STUDY.

### ORAL PROSTHESIS AND ORTHODONTIA.

PROF. SHIRLEY W. BOWLES, D. D. S.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: The preparation and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect articulations, the method of constructing the different bases used for dentures, and the construction and application of obturators.

Æsthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by both didactic and clinical instruction, as well as special demonstrations in difficult cases.

Careful attention will be paid to the chemistry of metals and all the materials used in Dentistry.

The treatment of irregularities of the dental arch requires great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

### OPERATIVE DENTISTRY.

PROF. FRANK H. SHULTZ, D. D. S.

The lectures from the chair of operative dentistry present the means and methods in use for the preservation of the natural teeth, together with the principles which form the basis of practice, including a description of instruments and their uses; also appliances and materials used in operating; the treatment and preparation of cavities; the methods of filling with various forms of gold and plastic materials. A special feature of instruction from this chair will be practical demonstrations in the mouth, in the infirmary, before the entire class.

**DENTAL TECHNICS.**

PROF. W. N. COGAN, D. D. S.

This course, while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observation, enabling the student to become familiar with the form and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the living subjects

**DENTAL MEDICINE AND PATHOLOGY.**

PROF. H. JEROME ALLEN, M. D., D. D. S.

The lectures in this course will embrace a discussion of all drugs used in dentistry. Their preparation, physiological effect, therapeutic action and dental uses will be emphasized by this chair.

The lectures on Dental Pathology include such portions of general pathology as are of special interest to the dental student.

A detailed consideration is given of all the diseases of the teeth and surrounding parts; normal and abnormal character of oral secretions; dentition and its pathological results. The treatment necessary under each head is minutely detailed.

**ORAL SURGERY.**

PROF. JESSE RAMSBURGH, A. M., M. D.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis, and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

**DENTAL CERAMICS.**

PAUL W. EVANS, A. B., D. D. S.

A special course of instruction in Dental Ceramics is arranged for the graduating class. The college is provided with a large electric furnace, and porcelain inlays and crown and bridge work, together with continuous gum work, will receive special attention.

**ANAESTHESIA AND EXTRACTION AND DENTAL HISTOLOGY**

L. F. DAVIS, M. D., D. D. S.

The lectures on Histology include the comparative anatomy

and the development of the teeth, and their component tissues, and the functions of dental organs.

The administration of nitrous oxide and the use of local anesthetics will also be dwelt upon from a dental standpoint.

### ANATOMY.

PROF. FRANK BAKER, M. D., PH. D.

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention will be given to the descriptive anatomy of the head, face, neck, and oral cavity.

(For Histology and Osteology, see page 26.)

The demonstrator of practical anatomy will have charge of the class in the dissecting-room, where dissecting material will be supplied in abundance.

### PHYSIOLOGY.

PROF. JOSEPH S. WALL, M. D.

One of the features of the progress and development of modern Dentistry is its closer association with the wider field of General Medicine, through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a fuller knowledge of the whole organism, in order that he may the more intelligently deal with that part of it which is his immediate province. To this end the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while the practical application will be pointed out in lectures, recitations, and practical demonstrations.

### MATERIA MEDICA AND THERAPEUTICS

PROF. WILFRED M. BARTON, M. D.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contra-indication to their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

### CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M., LL. M.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling

especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the vital chemistry of anesthetics, and the special chemistry of the mouth, the stomach, and intestinal tube will be fully treated.

### PHYSICS.

MAHLON ASHFORD, M. D.

A course in the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

### PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical, and embrace full laboratory teaching of the most important subjects of these studies.

### GRADUATION

At the close of the third year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions :

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in all the branches of the curriculum ; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

Candidates must sign an agreement with the Dean to live up to the ethics of the profession.

The examinations are conducted orally and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the Dental Infirmary must be exhibited to the Professor of Operative Dentistry, and such other specimen work as he may require ; also an approved specimen of dental mechanism constructed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

### FEES.

Matriculation (payable but once) .....	\$5 00
Tuition, each year.....	150 00

Students will be required to make an annual deposit of \$10.00 to cover loss, breakage or damage to the property of the school. This deposit, less the charges made against it, is refunded to the student upon his withdrawal.

\*A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1 ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

The expenses of a student during the eight months, including tuition, books, board and lodging, laundry and other incidentals need not exceed \$350.00, and \$425.00 will be a liberal allowance.

For further information apply in person or by letter to—

WILLIAM N. COGAN, *Dean*,  
920 H Street N. W., Washington, D. C.

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## MATRICULATES, 1905-1906.

### FIRST YEAR.

Casteel, Frank A.....	District of Columbia.
Coyle, Dennis J.....	Pennsylvania.
McDonald, Thomas N.....	New York.
McKellar, W. C.....	New York.
McLane Edgar C.....	Massachusetts.
Martin, Edward I.....	New York.
O'Brien, Michael J.....	Rhode Island.

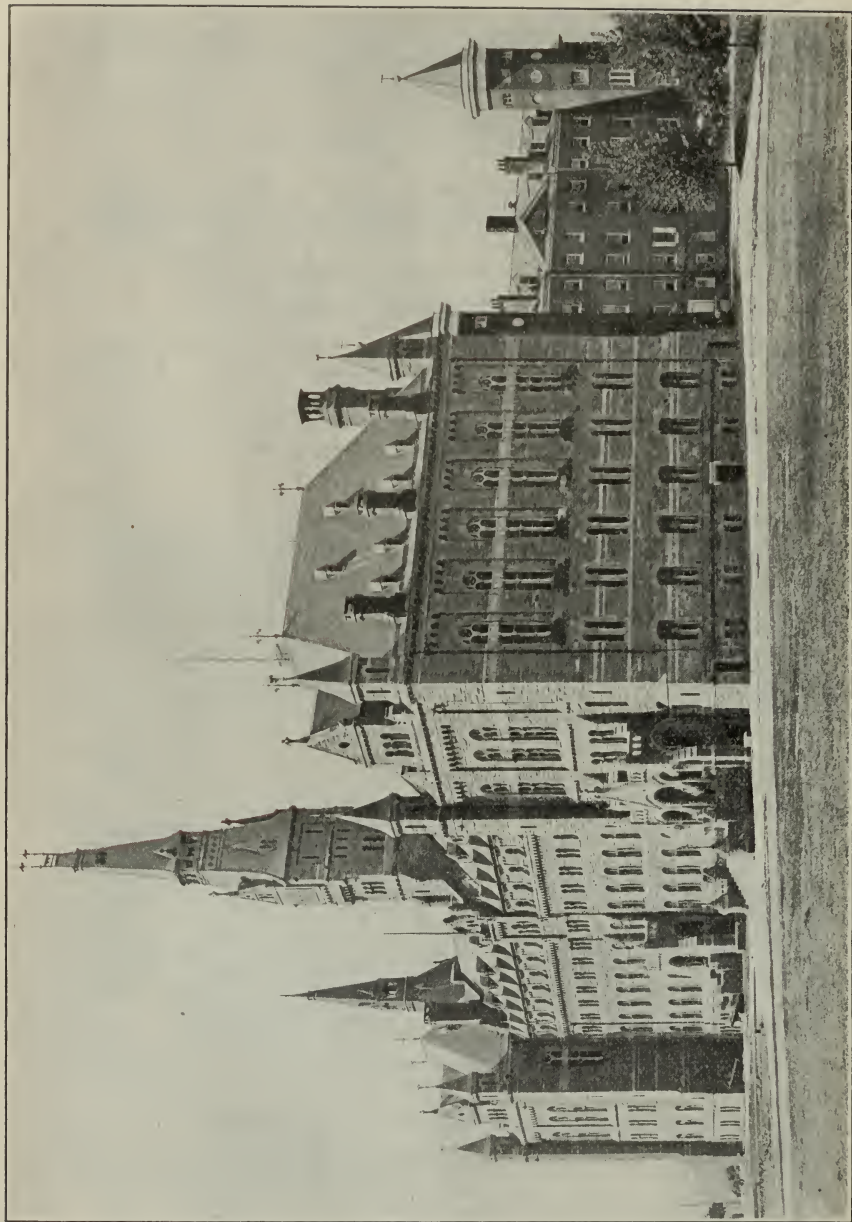
### SECOND YEAR.

Curry, Frank L.....	Massachusetts.
Joliat, Albert L. F.....	Ohio.
Monroe, C. Hugh.....	District of Columbia.
Murningham, Richard J.....	New York.
Murphy, Daniel A.....	Massachusetts.
Riley, Harry B.....	District of Columbia.
Sakurai, Eiichi.....	Tokio, Japan.
Sheehan, Patrick F.....	Massachusetts.
Sweeney, Matthew J.....	Massachusetts.

### THIRD YEAR.

Faber, Henry H. N.....	New Jersey.
Harris, Ephraim G.....	Maryland.
McCarthy, John A.....	Massachusetts.
Nee, Joseph F.....	Massachusetts.
Pardee, Edmund W.....	New York.
Rivera, Nestor.....	Porto Rico.
Schaake, Frederick W.....	Massachusetts.





The College Building.

## THE ACADEMIC DEPARTMENT.

### UNDERGRADUATE SCHOOL.

#### ENTRANCE REQUIREMENTS.

Students may enter at any time during the session, and, on examination, will be assigned to the class for which their prior attainments have fitted them.

Satisfactory testimonials of good conduct will be required from those who come from other institutions.

It is especially to be noted that Georgetown College is a Classical College of prescribed courses. The prescribed studies include both Latin and Greek, and no one will be received as a candidate for the degree of A. B. unless he takes all the prescribed studies, including both Latin and Greek. Entrance to Freshman Class requires that the candidate shall have made four years of Latin and three years and one semester of Greek. For graduates of approved High Schools and Preparatory Schools, who have not taken Latin or Greek, special classes are provided in the Georgetown College Preparatory School connected with the College, wherein, by almost exclusive attention to these branches, the applicant may in one, or at most in two years fit himself for graded entrance into Freshman Class.

Candidates for admission to the advanced classes must pass a satisfactory examination upon all the subjects previously studied by the class which they propose to enter.

From certain Classical Preparatory or High Schools of established reputation students are admitted to the Freshman Class without examination, upon presentation of the Principal's certificate that they have completed the required amount of work and are prepared to enter College. It is usually found that they have yet to qualify in Latin prosody.

In each case, however, a catalogue giving the course of studies required in his school, must accompany the Principal's certificate. The Georgetown College Preparatory School Catalogue may be had on application to the Prefect of Studies.

## GRADUATE SCHOOL.

## ENTRANCE REQUIREMENTS.

All graduates of Colleges of established reputation who hold the degree of A. B. or B. S. and who intend to advance to higher degrees are admissible to the courses of the Graduate School as candidates for advanced degrees; whilst others, who are not thus qualified, may assist at the lectures as special students.

## FEES AND EXPENSES.

## IN THE GRADUATE SCHOOL, COLLEGE AND PREPARATORY SCHOOL.

## REGULAR CHARGES.

## Boarders:

Tuition, Board, Lodging, Washing and Mending of Linen for the Scholastic Year .....	\$400.00
Medical Aid and Medicine.....	10.00
Library Fee.....	2.00
	<hr/>
	\$412.00

\$206.00, payable invariably in advance, at the beginning of each half year. A deposit must also be made sufficient for books and other incidental expenses. This need not exceed \$20.

If a private room is required the charge is in addition to the above.

## PRIVATE ROOMS.

In the Healy Building, for the scholastic year ..... \$80.00

## In the Ida M. Ryan Hall:

Room, for the year.....	100.00
Larger Room, for the year.....	150.00
Double Room (i. e. for two).....	200.00
Room with Bath, in suite.....	200.00
Suite of Sleeping Room, Study and Bath.....	300.00
Suite of two Rooms and Bath (for two) .....	300.00
Suite of three Rooms and Bath .....	400.00

## In the North Building :

Room, for the year .....	60.00
Larger Room, for the year.....	80.00
Double Room (i. e. for two).....	100.00

The rental of rooms includes heat, light and service.

## Half Boarders :

Tuition for the year.....	\$150.00
Luncheon at the College, for the year.....	50.00
Library Fee .....	2.00
	<hr/>
	\$202.00

## Day Scholars :

Tuition by the year.....	\$150.00
Library Fee.....	2.00
	<hr/>
	\$152.00

Students from the Medical School are not received to board or lodge at the College. Students from the Law School may board and lodge at the College only in case of taking at the same time post-graduate courses at the College. Post-graduate students may enter the College either as boarders or day scholars. Undergraduate students are not received as day scholars unless they are living with their parents or guardians. Students are not allowed to lodge at the College and board outside the College.

For further information apply to REV. DAVID H. BUEL, S. J., President of Georgetown University, Washington, D. C.

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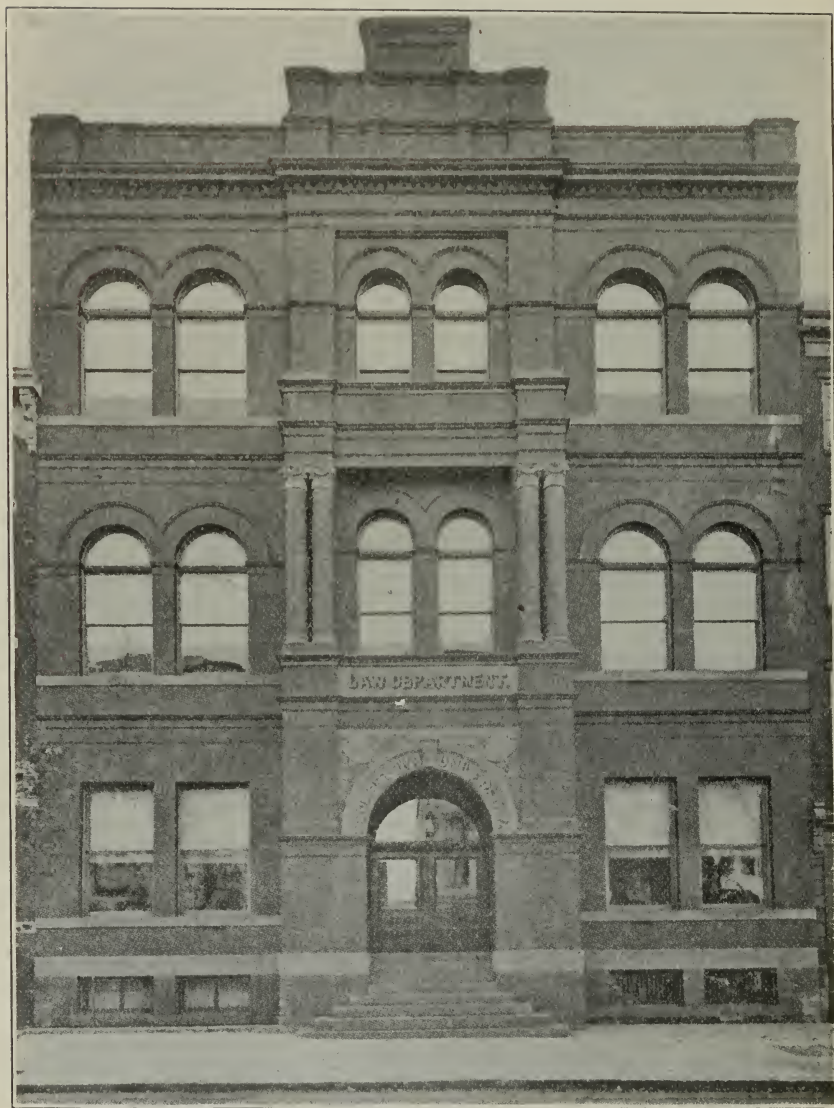
## SCHOOL OF LAW.

### ENTRANCE REQUIREMENTS.

Candidates for a degree must have received a High School education, or its equivalent, evidence of which must be presented or a preliminary examination will be required.

Candidates for advanced standing, *i. e.*, those desiring to complete the course in one or two years, must, at the time of entry, present certificates of previous study at some approved Law School or under the direction of a reputable practitioner. Such certificate must show, moreover, that the candidate has passed a satisfactory examination upon the subjects embraced in the first, or first and second years, as the case may be, otherwise an





School of Law Building.



examination will be necessary before he can enter an advanced class. This examination will always be required of those whose study has been carried on under the direction of a practitioner.

#### FEES AND EXPENSES.

The charge for attendance in the first, second and third years is *One Hundred Dollars* per annum, except for a few students who were on the rolls prior to the increase from *Eighty Dollars*, who will be continued at the latter rate until they have finished their third year. As far as payment of tuition is concerned, the collegiate year is regarded as divided into two equal terms, beginning on the first Wednesday in October and February, respectively, and one-half the annual charge becomes due and payable on the following day, Thursday. For the accommodation of students the Secretary will, when requested, receive monthly payments, *strictly in advance*.

Tuition in the fourth or Post Graduate Course is also *One Hundred Dollars* per annum, payable semi-annually, or in monthly installments in advance.

Persons enrolling their names as students will be considered as having entered the school for not less than one term, unless an express agreement to the contrary is made. Payment will not be received for less than one full month, nor can any deduction be made for absence.

For attendance on lectures, as hereinbefore stated, the charge is *Fifty Dollars* per annum, payable in monthly installments in advance.

The fee for Graduation, which is additional to the yearly charge for attendance, *and which includes all expenses of the annual commencement*, is *Ten Dollars*.

#### COST OF BOARDING, ETC.

There is no boarding department connected with the Law School. The majority of the law students board in Washington City, where the Law School is located, and where the cost of comfortable lodging, board, fuel and gas varies from \$20 to \$30 per month, according to the location and appointments selected. Satisfactory accommodations can easily be had at \$25 per month; and there are every year students who provide for themselves comfortably at a cost of \$20 per month, and even less.

Tuition is \$100 per annum, with no incidental charges, except a diploma fee of \$10 upon graduation. Cost of text books is about \$30 per annum. The Law School session is from the first Wednesday in October to the first Wednesday in June—about eight months. The necessary expenses for board, lodging, tuition, books, etc., per annum, is, therefore, about \$350, exclusive, of course, of clothing and general incidental expenses.

For further information apply to—

RICHARD J. WATKINS, A. B., LL. M.,  
*Secretary and Treasurer.*

*Address* Georgetown University Law Building,  
506-508 E Street N. W.,  
Washington, D. C.

## Text Books and Books of Reference.

## SCHOOL OF MEDICINE.

PRESIDENT'S OFFICE.

The latest editions should always be procured:

*Anatomy*.—Cunningham, Morris or Quain; Heath's or Cunningham's Dissector.

*Embryology*.—Heisler; Marshall; Hertwig.

*Histology*. Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers.

*Physiology*.—American Text-Book; Huxley-Lee; Landois.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

*Chemistry*.—Remsen; Harris' Qualitative Analysis; Purdy; Witthaus' and Becker's Toxicology; Tanner on Poisons; Long's Physiological Chemistry.

*Materia Medica*.—Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—Cushny; H. C. Wood; Hare; Potter.

*Bacteriology*.—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Stengel; Lazarus—Barlow.

*Parasites*.—Neumann; Braun; Stiles; Bull. 10-17, and Ransom, Bull. 18, Hygienic Laboratory, U. S. Public Health and Marine Hospital Service.

*Physical Diagnosis*.—Loomis; Vierordt; Hare; Tyson. Le Fevre.

*Practice of Medicine*.—Tyson; Osler; French; Anders; W. Gilman Thompson; Hare's.

*Surgery*.—Vaughan's Principles and Practice of Surgery; American Text-Book of Surgery; Beckham, Operative Surgery; Von Bergmann's System of Surgery; Park; Warren's Surgical Pathology; Bradford & Lovett, Orthopaedic Surgery; Keyes' Genito-Urinary Diseases; Morton's Genito-Urinary Diseases; White & Martin's Genito-Urinary Diseases.

*Ostetrics*.—Lusk; Jewett; Hirst; Williams; American Text-Book of Obstetrics; Edgar; Webster; Garrigues.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclopedia; Taylor and Wells; Koplik.

*Ophthalmology*.—Fuch's; de Schweinitz; Jackson; May; System of Diseases of the Eye, Norris & Oliver; Exposition of Principles of Refraction—Burnett; Refraction and Motility of the Eye, Suter.

*Otology*.—Politzer; Dench.

*Laryngology and Rhinology*.—Mackenzie; Knight; Bosworth; Shirley.

*Dermatology*.—Hyde; Kaposi; Jackson.

## Text Books and Books of Reference.

*Nervous Diseases.*—Nervous and Mental Diseases—Church and Peterson; Text-Book on Nervous Diseases—Dana; Organic Nervous Diseases—Starr; Section on Nervous Diseases in Osler's Practice of Medicine.

*Mental Diseases.*—Practical Manual of Insanity—Brower and Bannister; Mental Diseases—Berkley; Practical Manual of Mental Medicine—Regis; Clinical Psychiatry—Defendorf; Reference Handbook of the Medical Sciences, article on Insanity; Text of Psychiatry; Bianchi.

*Electro-Therapeutics.*—Hadley; Marsey; Bigelow.

*Medical Jurisprudence.*—Reese; Taylor; Tidy.

*Hygiene.*—Harrington; Parkes; Egbert.

*Dietetics.*—Williams on Food and Diet.

### DENTAL SCHOOL.

The latest editions should always be procured:

*Anatomy.*—Cunningham, Morris or Quain; Heath's Dissector; Broomell's Anatomy and Histology of the Mouth and Teeth; Black's Dental Anatomy.

*Histology.*—Stöhr; Schäfer's Essentials; Stirling; Piersol; Böhm and von Davidoff; Hubers' and Broomell's Anatomy and Histology of the Mouth and Teeth.

*Physiology.*—American Text-Book; Huxley-Lee.

*Physics.*—Gage's Elementary and Draper's Medical Physics.

*Chemistry.*—Remsen; Harris' Qualitative Analysis; Witherthaus' and Becker's Toxicology; Tanner on Poisons; Mitchell's Dental Chemistry and Metallurgy.

*Bacteriology.*—Frankel; Sternberg; Levy and Klemperer; Abbott; McFarland; Miller's Micro-organisms of the Human Teeth.

*Pathology.*—Ziegler; Green; Delafield and Prudden; Woodhead, Stengel; Burchard's Dental Pathology and Therapeutics; Bodecker's Anatomy and Pathology of the Teeth; Barrett's Oral Pathology and Practice.

*Materia Medica.*—Cushny; Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics.*—H. C. Wood; Hare; Potter; Gorgas' Dental Medicine.

*Operative Dentistry.*—Kirk's American Text-Book on Operative Dentistry; C. L. Johnson's Operative Dentistry; The American System of Dentistry, edited by Litch; Weeks' Manual of Operative Technics.

*Prosthetic Dentistry.* American Text-Book of Prosthetic Dentistry; Richardson's Mechanical Dentistry; Kingsley's Oral Deformities; Warren's Compend of Dental Prosthesis and Metallurgy; Guilford's Orthodontia; Goslee's Principles of Crown and Bridge Work.

*Oral Surgery.*—Marshall's Surgical Injuries and Diseases of the Face, Mouth, and Jaws; McCurdy's Oral Surgery; Syllabus by the Professor of this branch.



3-295Zm  
1911/12

SEVENTH SERIES

No. 4

# Georgetown University Publication

Bulletin of the  
School of Medicine

AND

Dental Department

Announcement for the Session of 1911-1912



Washington, D. C.

Published by Georgetown University--quarterly

[January to March, 1911]

ENTERED MAY 6, 1904, AT WASHINGTON, D. C., AS SECOND-CLASS  
MATTER UNDER ACT OF CONGRESS OF JULY 16, 1894.

UNIVERSITY OF MICHIGAN  
FEB 1912  
PRESIDENT'S OFFICE



## Calendar for 1911-1912

1911.

SEPT. 25 and 26.—Examinations for admission and re-examinations every day at 2 P. M.

SEPT. 27.—Lectures begin at 1.30 P. M.

NOV. 30.—Thanksgiving Holiday.

DEC. 22.—Christmas recess begins at 5 P. M.

1912.

JAN. 3.—Lectures resumed.

FEB. 22.—Legal Holiday.

APR. 3.—Easter recess begins at 6 P. M.

APR. 8.—Lectures resumed.

MAY 21.—Lecture course completed.

MAY 23.—Examinations begin.

JUNE 13.—Commencement.

UNIVERSITY OF ILLINOIS

## GEORGETOWN UNIVERSITY.

PRESIDENT'S OFFICE

### EDUCATIONAL ADVANTAGES OF WASHINGTON.

Georgetown University, in the city of Washington, was chartered by Congress March 1, 1815, and consists of the following departments:\*

DEPARTMENT OF ARTS AND SCIENCES.

[Undergraduate and Graduate.]

THE ASTRONOMICAL OBSERVATORY.

REV. JOSEPH HIMMEL, S. J., President Georgetown University.

SCHOOL OF MEDICINE.

[Undergraduate and Graduate.]

GEORGE M. KOBER, M. D., Dean, 920 H Street, N. W.

DEPARTMENT OF DENTISTRY.

WILLIAM N. COGAN, D. D. S., Dean, 920 H Street, N. W.

SCHOOL OF LAW.

[Undergraduate and Graduate.]

HON. HENRY M. CLABAUGH, LL. D., Dean, 506-508 E Street, Washington, D. C.

Each School or Department is under the direction of its own Dean, and each Faculty has the power of legislating on its own affairs, but this power can be exercised only in subordination to the President and Directors of the University, and subject to their approval.

In its location at the Capital of the Nation, Georgetown University enjoys advantages which can hardly be overestimated, and which must necessarily increase with the growth of the country. Not only is the city, free as it is from the noise, dirt, and distracting surroundings of a great commercial center, most favorable to the tranquil and earnest pursuit of study, but it has an unparalleled educational equipment in the great scientific collections and libraries of the Government. According to Mr. Putnam, the Librarian of Congress, there are 34 governmental libraries, containing in the aggregate over two million books and pamphlets and over one-half million maps, manuscripts, music, and prints; this a larger proportion of volumes per capita for public use than any other city in the world. By the authority of Congress all such facilities for research and illustration in the governmental collections are made accessible to the scientific investigators and students of higher learning in the District of Columbia.

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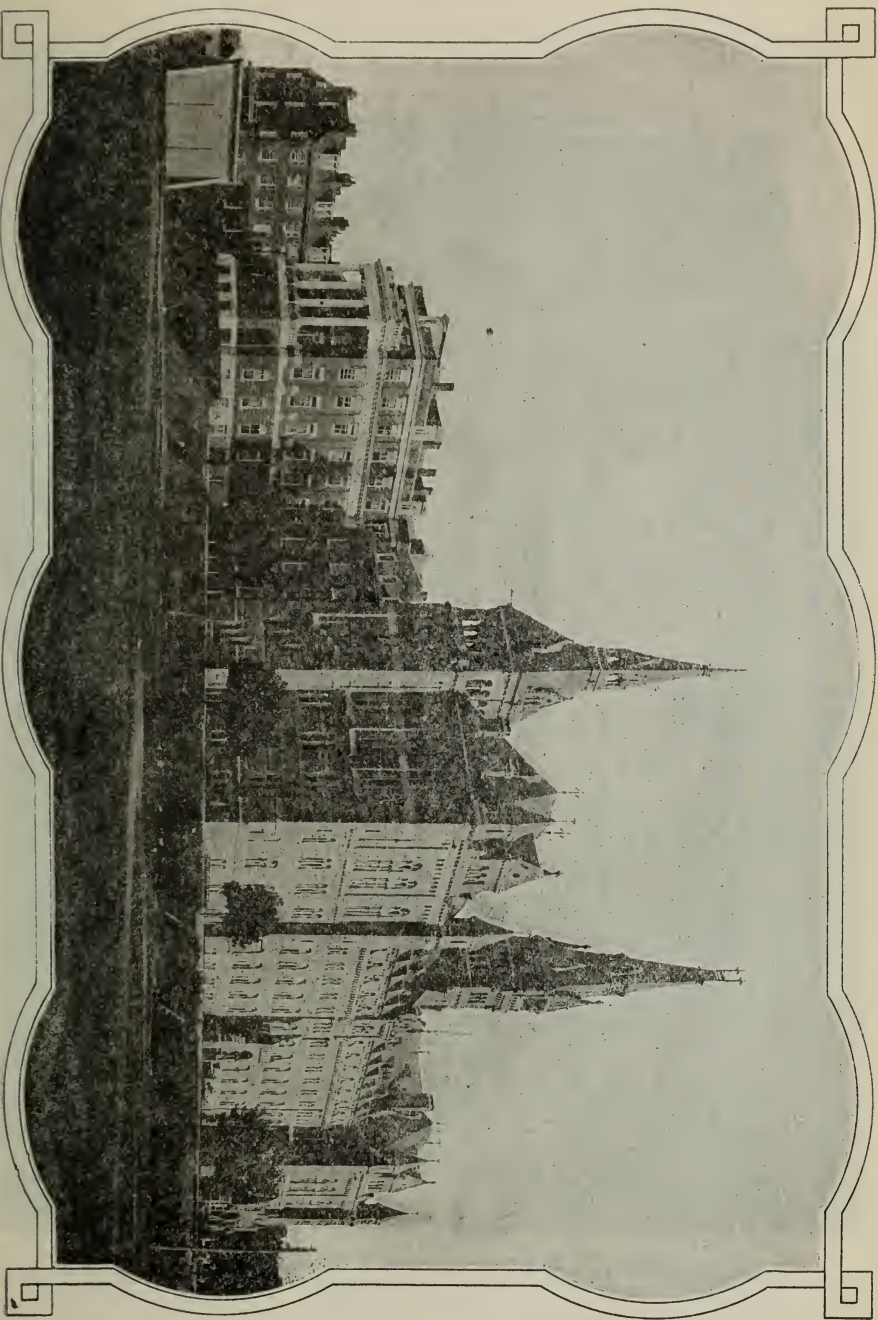
\*For further information apply to the President of the University or the Deans of the respective departments.

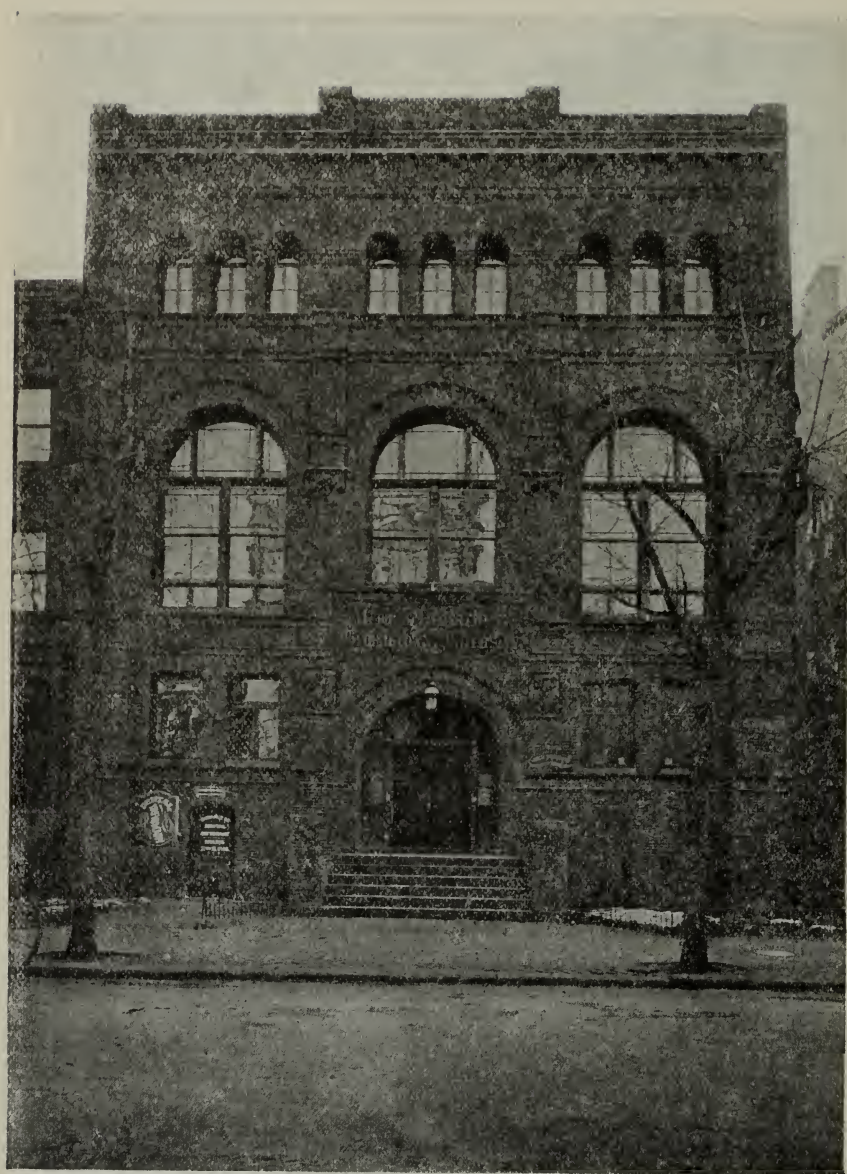


GEORGETOWN UNIVERSITY HOSPITAL.



GEORGETOWN UNIVERSITY.





MEDICAL AND DENTAL DEPARTMENT BUILDING.



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JOHN CONSTAS, M. D., ( <i>In Operative Surgery</i> ),	1111 Massachusetts Avenue.
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*Past Assistant Surgeon U. S. Naval Medical School, Special Lecturer on Tropical Diseases.*

REV. ALOYSIUS BROSNAN, S. J.

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**SISTER SUPERIOR.**

SISTER MARY PAULINE, O. S. F.

## FOR STUDENTS OF MEDICINE.

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### ANNOUNCEMENT FOR 1911-1912.

The complete course of study in the Medical Department extends over four terms of eight months each. The next term will begin Monday, September 25, 1911, and end on June 13, 1912.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his teachers in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual.

The building of this department is conveniently situated on H Street, Northwest, between Ninth and Tenth Streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms and laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power.

These will greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The Laboratory courses may be taken independently of the lectures.

The clinical instruction is carried on in the University Hospital in connection with the general wards, Emergency service, Outdoor Department, pathological laboratories and operating rooms. Clinics are also held at the Children's, Garfield, Emergency, Columbia Hospital for Women, Episcopal Eye and Ear Hospital, the Municipal Hospital, Providence Hospital, and the Government Hospital for Insane, containing in all over 3,000 beds.

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student that are unrivalled in America, and are equal, if not superior, to those in most European capitals. These collections are freely open to the public, and can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

## LIBRARIES.

The Library of Congress.....	1,100,000 vols.
The Library of the Surgeon-General's Office.....	140,539 vols.
The Library of the National Museum.....	16,000 vols.
The Library of the Museum of Hygiene.....	10,500 vols.
The Library of the Bureau of Ethnology.....	5,000 vols.
The Library of the Bureau of Education.....	30,000 vols.
The Library of the Department of Agriculture.....	25,000 vols.

## MUSEUMS, ETC.

The Army Medical Museum.  
The Museum of Hygiene.  
The United States National Museum.  
The Museum of the Agricultural Department.  
The Botanical Garden.  
The United States National Zoological Park.



## REQUISITES FOR ADMISSION.

Creditable certificates of good moral character, signed by two physicians of good standing in the State, Territory, or District in which the applicant last resided.

The Association of American Medical Colleges has prescribed the following minimum requirements for admission to the medical course:

(a) A bachelor's degree from an accredited college or university.

(b) A diploma from an accredited high school, normal school or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades, and for graduation not less than four years of study embracing two years (4 points) of Latin, or four years (8 points) of either high school French or German, or its full equivalent, provided a satisfactory examination is passed in the elements of Latin grammar; two years (4 points) of mathematics; two years (4 points) of English; one year (2 points) of history; one year (2 points) of physics, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches, totaling 30 points:

A. Required, 16 points.	Pts.
<i>Mathematics</i> —(Minimum, 2 years; maximum, 3 years).....	4
Algebra, through quadratics, and plain geometry.	
<i>English</i> —(Minimum, 2 years; maximum, 4 years).....	4
(a) English grammar.	
(b) Rhetoric and composition.	
<i>Latin</i> —(Minimum [see (b)]; maximum, 4 years).....	4
(a) Latin grammar.	
(b) Latin prose composition.	
(c) Reading four books of Cæsar or equivalent.	
<i>Physics</i> —(1 year). With laboratory work.....	2
<i>History</i> —(1 year). Including civics, political economy or chemistry.	2
Total required.....	16

B. Elective, 14 points.

English Language and Literature— (2 years). Only if taken after the required English.....	Pts.
Language—German, French, Spanish or Greek (4 years); not less than 1 year in any one [see b].....	4
<i>Advanced Mathematics</i> —Higher Algebra. Solid Geometry and Trigonometry (½ year each).....	2
<i>Natural Science</i> —(1 year). Biology, 1 year, or Botany and Zoology, ½ year each.....	1
<i>Physical Science</i> —(1 year). Chemistry.....	2
<i>Earth Science</i> —Physical Geography and Geology. ½ year each....	1
<i>Physiology and Hygiene</i> —(½ year)	1
<i>Astronomy</i> —(½ year).....	1
<i>Drawing</i> —(½ year).....	1
One point in any subject demands 5 periods per week of not less than 45 minutes duration each for 18 weeks.	5
Two points equal 5 counts, or 1 unit, or 2 credits.	
Sec. 2. This examination must be conducted by or under the authority of the board of medical examiners of the State in which the college is located, or by a duly authorized examiner of an accredited university, State or otherwise, or by a method approved by the judicial council.	
Sec. 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.	
After January 1, 1912, Section 3 will be inoperative.	

## SPECIAL NOTICE.

Prospective students are reminded that some of the State Medical Examining Boards require one or two years of college work as a preliminary requirement for the study of medicine, and it is necessary to conform with the medical laws of the State in which it is proposed to begin practice. (Minnesota, North Dakota, Colorado, Iowa and Indiana.)

A number of States require in addition to a four-year high school education or its equivalent at least one year's work in Physics, Chemistry, Biology, and either French or German. If this work has not been taken in a College of Liberal Arts, this preliminary year can be taken in connection with the university courses, but can not be credited to the medical course. (South Dakota, Kansas and Connecticut.)

Notice is hereby given that after January 1, 1912, the minimum educational requirement preliminary to the study of medicine in this school, in addition to a four-year high school education or its equivalent, will be two years of collegiate work, including chemistry, physics, biology and a modern language, either French or German.

### ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students who have attended one or more terms at any other medical college in good standing may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter. Those presenting certificates of examination from other reputable medical colleges of equal requirements will be admitted to the respective higher classes without further examination.

Persons not candidates for the degree M. D. may be admitted without examination as special students, and may attend any of the courses upon giving satisfactory evidence that they are qualified intelligently to avail themselves of the instruction.

The preliminary examinations will be held at the College Building on Monday, September 25th; the regular course will begin Wednesday, September 27, 1911, at 2 P. M.

### METHOD OF INSTRUCTION.

The course of instruction consists of laboratory work, recitations, demonstrations, lectures, bedside instruction, dispensary work, and other practical instruction. The students are divided into four classes, called, respectively, the First, Second, Third, and Fourth.

Class recitations are conducted by members of the Faculty and by instructors. A record of these recitations are kept, and the average is credited to each student in summing up after the final examinations at the end of the session.

The following is a sketch of the several courses of instruction:

# MEDICAL COURSE OF 4,000 HOURS DIVIDED ACCORDING TO YEARS.

	Lectures, Recitations and Demonstrations.	Labora- tory Work.	Clinics.	Total.
<b>First year:</b>				
Embryology . . . . .	30	45	..	75
Histology . . . . .	30	105	..	135
Osteology . . . . .	..	30	..	30
Anatomy . . . . .	60	180	..	240
Inorganic Chemistry . . . . .	60	120	..	180
Organic Chemistry . . . . .	30	45	..	75
Physiology . . . . .	70	50	..	120
Materia Medica . . . . .	40	40	..	80
	320	615	..	935
<b>Second year:</b>				
Anatomy . . . . .	60	180	..	240
Physiology . . . . .	70	50	..	120
Physiologic Chemistry . . . . .	30	75	..	105
Bacteriology . . . . .	30	105	..	135
Pathology . . . . .	60	180	..	240
Pharmacology . . . . .	40	65	..	105
Minor Surgery . . . . .	15	..	20	35
	305	655	20	980
<b>Third year:</b>				
Pathology . . . . .	..	30	..	30
Physical Diagnosis . . . . .	20	..	80	100
Practice of Medicine . . . . .	90	..	180	270
Pediatrics . . . . .	15	..	60	75
Surgery . . . . .	90	..	147	237
Obstetrics . . . . .	60	..	35	95
Gynecology . . . . .	20	..	30	50
Mental and Nervous Diseases . . . . .	20	..	30	50
Therapeutics . . . . .	20	..	35	55
Hygiene and Dietetics . . . . .	45	..	..	45
	380	30	597	1,007
<b>Fourth year:</b>				
Practice of Medicine . . . . .	90	..	180	270
Pediatrics . . . . .	15	..	60	75
Surgery . . . . .	90	..	148	238
Obstetrics . . . . .	60	..	40	100
Gynecology . . . . .	20	..	35	55
Mental and Nervous Diseases . . . . .	20	..	35	55
Orthopedic Surgery . . . . .	15	..	30	45
Genito-Urinary Surgery . . . . .	15	..	30	45
Dermatology and Syphilis . . . . .	15	..	30	45
Eye . . . . .	15	..	45	60
Ear, Nose and Throat . . . . .	15	..	45	60
Medical Jurisprudence, Ethics and Economics . . . . .	30	..	..	30
	400	..	678	1,078
<b>Recapitulation:</b>				
First year . . . . .	320	615	..	935
Second year . . . . .	305	655	20	980
Third year . . . . .	380	30	597	1,007
Fourth year . . . . .	390	..	688	1,078
Total . . . . .	1,395	1,300	1,305	4,000

## ANATOMY.

PROF. FRANK BAKER, A. M., PH. D., M. D.  
*Superintendent of the Zoological Park.*

The didactic instruction is illustrated by demonstrations on the living subject, by dissections, models, and several hundred plates and lantern slides prepared especially for the course. The students are thoroughly examined orally from week to week as the course progresses in order to insure that they understand the work and are making satisfactory progress. Written examinations are held frequently. Especial attention is paid to the practical bearings of the science and its application to surgery and pathology.

## OSTEOLOGY.

EMORY W. REISINGER, M. D.  
*Assistant to the Professor of Anatomy.*

This course includes a careful study of every bone in the human body, the pupil being required to point out and designate the important and technical features of each upon an actual specimen. For the study of the skeleton it is very much like the study of the softer parts in the dissecting room, and is an indispensable preliminary to that work.

## PRACTICAL ANATOMY.

JOHN CONSTAS, M. D.  
*Demonstrator.*

The dissecting room is open daily for students after October 15th, and the Demonstrator or his Assistants are present. During the session special demonstrations of the brain, of the thoracic and the abdominal viscera, and also of other difficult or obscure regions of the body are given.

During each session every student of the First and Second Classes is required to dissect all regions of the human body, and to pass a satisfactory examination at the conclusion of each dissection.

## HISTOLOGY.

JOHN A. FOOTE, M. D.  
*Instructor.*

This course consists chiefly of laboratory work. Recitations, with explanatory talks illustrated by charts and blackboard drawings, precede the laboratory work of the day and aid in interpreting its specimens. The laboratory is large and well lighted. Each student is

furnished with a microscope, locker and accessories, and is instructed in the theory and practical use of the microscope. The elementary tissues are studied in the fresh state as well as after being stained and mounted. In the study of the organs, practical instruction is given in the preparation of mounted specimens, the actual work so far as is practicable, being done by the student. The relations of histology to embryology, physiology and pathology are duly considered. Throughout the course, drawings with descriptive notes are made of the microscopic appearances.

### EMBRYOLOGY.

ROY D. ADAMS, M. D.

This course consists of lectures and practical laboratory work in which the student is taught to prepare serial sections of embryos studied. It begins with spermatogenesis and ovogenesis, and then taking up the development after fertilization proceeds to the formation of the rudiment of the embryo, and concludes with a consideration of organology.

### PHYSIOLOGY.

PROF. JOSEPH S. WALL, M. D.

*One of the Visiting Physicians to the Providence and Foundlings' Hospital, and Physician, the Children's Hospital Dispensary.*

This course consists of lectures upon General and Special demonstrations, and practical work in the Physiological Laboratory. The students are familiarized with the use of the latest appliances, and are required to make accurate notes of all experiments and individual work performed under the supervision of the Director of the laboratory.

While a knowledge of the facts of Physiology is essential, greater stress will be laid upon the underlying, fundamental principles, and their application to the problems of Pathology, Physical Diagnosis, and practical Medicine and Surgery.

### MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.

PROF. WILFRED M. BARTON, M. D.

The course on Materia Medica, Pharmacology and Therapeutics will cover three years, and consists of a combination of didactic and laboratory and clinical instruction. During the first year the student is made acquainted by actual demonstration with the physical and chemical characteristics of the drugs of the Pharmacopœia, their doses, compatibilities and incompatibilities; also weights and measures, ele-



mentary pharmacy, etc., and will be taught so much of the actions and uses of drugs as is necessary to illustrate their importance. During the second year the student is taught by lectures and practical demonstrations the physiological action of drugs and an effort is made to fix the most important elements of pharmacodynamics by laboratory exercises. During the third year the student is taught to apply his theoretical knowledge thus obtained, by instruction at the University Hospital and Dispensary.

The attention of the student is directed to the systematic study of the application of drugs to the treatment of disease, a practical knowledge of which is the ultimate aim of his course in pharmacology.

## CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M., LL. M.

It is the aim in this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course special attention is given to the subject of elementary chemistry, including thorough instruction in the laws governing chemical combination and molecular changes. This is supplemented by laboratory work, illustrating the subjects previously considered and setting forth the fundamental principles of chemical analysis.

In organic chemistry the instruction is given by means of lectures and laboratory work. This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine. Under the head of organic chemistry, that department of science known as sanitary chemistry also receives attention. This includes the practical examination of the various forms of matter which affect, either directly or indirectly, the general health. It is intended in this course that such a knowledge shall be imparted to the students as may enable them to differentiate between wholesome and unwholesome articles of food and drink. The various food products, particularly milk, cheese, bread and meats, will receive careful consideration. The examination of air in rooms, the velocity, condition and quality of air currents, will be considered under the head of ventilation. The organic analysis of water and its various forms of pollution, will also receive attention.

During the second year physiological chemistry is taken up in detail. This includes practical laboratory work in the study of foods, their composition, assimilation, metabolism and excretion, together with the allied subjects relating thereto.

Under the head of toxicology the general subject of poisons, including their effects, modes of action, subsequent dispositions and antagonisms is considered in detail.

## PHYSICS.

PROF. FRANCIS A. TONDORF, S. J.

A special course in physics with special reference to medicine and surgery, illustrated by laboratory experiments, is given during the first year.

## GENERAL PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D.

*Pathologist and Associate Physician, Georgetown University Hospital.*

The course in pathology will extend over two years. The instruction will consist of lectures, demonstrations, class recitations and laboratory work, and will embrace general and special pathology, including bacteriology and clinical pathology.

The lectures and class recitations are brought in close relation with the laboratory exercises. During the first half-year general consideration of disease, including etiology and immunity, are taken up, and during the same period the laboratory work in bacteriology is made to explain and illustrate the didactic work as far as possible.

The second half-year is devoted to the study of the anatomical changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. The course in pathological histology is so arranged as to keep pace with the class work; for this purpose a complete series of typical pathological specimens will be presented for individual study.

The course in clinical pathology contemplates the examination of blood, urine, feces, gastric contents, sputum, pathological exudates, etc., with special reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized.

## SPECIAL PATHOLOGY AND MORBID ANATOMY.

PROF. I. W. BLACKBURN, M. D.

*Pathologist to the Government Hospital for the Insane.*

This course is devoted to the pathology and morbid anatomy of the individual organs, tissues, and fluids; to the consideration of tumors and morbid growths in general and in connection with special path-

ology; to the pathology of mental diseases; and the methods of conducting post-mortem examinations for medico-scientific and medico-legal purposes. The course is supplemented by lectures, demonstrations, and practical necropsy work at the Government Hospital for the Insane.

### PHYSICAL DIAGNOSIS.

PROF. JOHN D. THOMAS, A. B., M. D.

*Associate Physician, Georgetown University Hospital, and at the Central Dispensary and Emergency Hospital. Visiting Physician to the Tuberculosis Hospital and Consulting Physician to the Home for Incurables.*

In addition to the didactic lectures on the principles of physical diagnosis, at the college, there are demonstrations to the students at large clinics at the Central Dispensary and Emergency Hospital, the University Hospital, and the Tuberculosis Hospital. The class is divided into sections, each member of which makes examinations under proper supervision.

### THEORY AND PRACTICE OF MEDICINE AND DISEASES OF CHILDREN.

PROF. SAMUEL S. ADAMS, A. M., M. D.,

*Attending Physician to Georgetown University and Children's Hospitals; Consulting Physician to Government Hospital for Insane, and Central Dispensary.*

An effort will be made to give in the course of two sessions as complete a description as possible of the diseases usually considered as belonging to the province of this chair, and in such manner as to give the student a clear conception of the methods of discrimination and management of the various diseased conditions. This teaching, together with the supplementary advantages offered by bedside and dispensary instruction and the various clinics, will, it is believed, afford him an opportunity of acquiring a thorough knowledge of this subject.

### PRINCIPLES AND PRACTICE OF SURGERY.

PROF. GEORGE TULLY VAUGHAN, M. D.,

*Chief Surgeon Georgetown University Hospital; one of the Attending Surgeons at the Emergency Hospital and Tuberculosis Hospital; Consulting Surgeon Government Hospital for Insane.*

The course in surgery extends over two and one-half years. Instruction is given by didactic lectures, recitations, and demonstrations

at clinics, which are held at various hospitals and dispensaries, which afford material in abundance.

Students are instructed in the practical use and application of bandages, fracture dressings, and other surgical apparatus. The use of the principal surgical instruments is also demonstrated on the living subject or on the cadaver.

Members of the Fourth Class are instructed in orthopedic and genito-urinary surgery by lectures and clinical demonstrations, and are given a course in operative surgery on the cadaver, in which nearly every operation, minor and capital, classic and modern, is done by the student under the direction of the professor and his assistants.

## SURGICAL PATHOLOGY.

RALPH A. HAMILTON, M. D.,  
*Pathologist to Providence Hospital.*

This course embraces the study of Surgical Pathology and Surgical Diagnosis according to modern practical methods.

Instruction is given during the session by demonstrations, lectures and laboratory work. The unaided eye appearances of the various neoplasms, malignant and benign, and the gross pathologic picture of the infective processes of tissues, are studied from fresh specimens and the museum collection.

The histories and microscopic sections accompanying these specimens are also studied in this work.

## OBSTETRICS.

PROF. HENRY D. FRY, M. D., D. Sc.,  
*Chief Obstetrician, Georgetown University Hospital.*

The course is graded, and consists of classified lectures comprising the whole subject, of systematic study, recitations, essays upon assigned subjects, and demonstrations upon charts and plates, and of operations performed upon the manikin. During the past session each member of the senior class attended five or more cases of midwifery, of which he was required to keep records and present written reports. Every facility is given for acquiring experience in the practical workings of this department by means of bedside instruction. Special attention is devoted to abdominal palpitation, pelvimetry, digital examination, and the methods of diagnosing presentations and positions of the fetus.

An opportunity is given to each student to perform the various obstetric operations, such as the application of forceps, version, supplemented by an operative course on the Budin-Pinard manikin.

The importance of exercising strict supervision over the period of pregnancy will be dwelt upon, and attention given to the pathological changes which may occur during gestation, labor, and the puerperal state. The great value of antiseptic principles as applied to obstetric practice will be demonstrated.

## GYNECOLOGY AND ABDOMINAL SURGERY.

PROF. JOSEPH TABER JOHNSON, A. M., PH. D., M. D.,

*Surgeon in Charge of Gynecology and Abdominal Surgery in the Georgetown University Hospital; one of the Consulting Physicians to the Central Dispensary and Emergency Hospital; Consulting Gynecologist to the Woman's Dispensary and the Government Hospital for Insane.*

Modern gynecology is taught in didactic lectures, freely illustrated by plates and blackboard drawings, recitations, and also a small class at public operations, in four different hospitals, where manipulations and operative work will be carefully explained and demonstrated. Abdominal surgery receives special attention.

Advanced students are required to witness the preparations for aseptic operations, and to assist in their performance.

## OPHTHALMOLOGY.

PROF. WILLIAM H. WILMER, M. D.,

*Ophthalmologist to Georgetown University, Episcopal Eye, Ear and Throat Hospital, and to the Central Dispensary and Emergency Hospital.*

The course begins with lectures on the anatomy of the eye, illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and the proper methods of examining the eye. The lectures are supplemented by quizzes and reviews. The lectures on the diseases of the eye are entirely practical, illustrative cases being taken from Dr. Wilmer's extensive service at the Episcopal Hospital, Central Dispensary and Emergency Hospital, and at the University Hospital. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible.

An operative course is given upon pigs' eyes. Each student has the opportunity to perform the principal operations and familiarize himself with the technique. More than two thousand new cases of eye diseases are treated annually at the Episcopal Hospital alone. Every important operation on the eye is performed in the presence of each section.

Drs. Dufour, Griffith, Greene, Muncaster and Burke will give clin-



ical demonstrations at the various hospitals with which they are connected.

## LARYNGOLOGY, RHINOLOGY AND OTOTOLOGY.

PROF. WALTER A. WELLS, M. D.,

*Surgeon in Charge of Throat and Ear Diseases at the University and Garfield Hospital; Associate Attending Physician, Episcopal Eye, Ear and Throat Hospital.*

The course in laryngology and otology, chiefly clinical, is conducted with a view to familiarizing the students with the various forms of nose, throat and ear affections met with in actual practice, and instructing him in modern methods of diagnosing and treating them. After some preliminary notice of the history of these specialties, followed by a thorough demonstration by means of charts and specimens of the anatomy and physiology of these organs the subject is taught by actual observation and study of the disease by contact with the patients.

The class is divided into sections, so that each student may be personally taught by the use of the instruments, and drilled in the methods of both subjective and objective examination of the patients. In the course of the year ample opportunity is afforded of witnessing the major and minor operations which have to be performed in connection with these specialties.

## HYGIENE AND DIETETICS.

PROF. GEORGE M. KOBER, M. D., LL. D.,

*Consulting Physician to Children's Hospital and Washington Asylum Hospital.*

The course on hygiene and dietetics includes lectures and recitations on sunlight, air, climate, and meteorology; water, ice, artificial carbonated waters, and soils in relation to health and disease; food, beverages, and condiments, morbid and infected food products; dietetics in health and disease; the skin, bath and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, with practical demonstrations of sanitary appliances at the Museum of Hygiene.

## STATE MEDICINE.

PROF. W. C. WOODWARD, M. D., LL. M.

*Health Officer District of Columbia.*

The course on State Medicine consists of lectures and of such demonstrations as may be practicable upon the relation of the medical

practitioner to Government, and of the application of medical science to the purposes of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law. Attendance will be obligatory upon the students in their fourth year.

## DERMATOLOGY.

J. C. BLACKISTON, M. D.

*Dermatologist to Georgetown University Hospital.*

Realizing that a knowledge of this important branch can be gained only by actual demonstration of the lesions, this subject is chiefly taught by clinical lectures at the Georgetown University Hospital Dispensary, which furnishes abundant material for the demonstration of all of the more common diseases of the skin. In addition, clinics are also held at the Central Dispensary and Emergency Hospital.

## MENTAL AND NERVOUS DISEASES.

PROF. WILLIAM A. WHITE, M. D.,

*Superintendent of the Government Hospital for the Insane.*

This course consists of didactic and clinical lectures. Lectures are held on neurology before the Christmas vacation at the Medical College and after Christmas Holidays on psychiatry at the Government Hospital for the Insane, which accommodates about 3,000 patients. Members of the Third and Fourth Classes are admitted to them. Students have opportunity to visit the wards of the Hospital, and each lecture is illustrated by cases, giving in great variety all the forms of insanity and diseases of the nervous system which are usually seen in the practice of the general practitioners in medicine.

## DISEASES OF THE NERVOUS SYSTEM AND ELECTRO-THERAPEUTICS.

PROF. D. PERCY HICKLING, M. D.,

*Neurologist to the University Hospital, Providence Hospital, and Physician in Charge of the Washington Asylum Hospital.*

This course is largely clinical and embraces those diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

The course of Electro-Therapeutics will include a brief outline of Electro-Physics and Electro-Physiology, with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, with a discussion of the medical and surgical conditions in which this form of treatment may be used. The lectures are amply illustrated with batteries, electrodes, rheostats and other electrical appliances.

## CLINICAL INSTRUCTION AND ADVANTAGES.

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### GEORGETOWN UNIVERSITY HOSPITAL.

*Corner of Thirty-fifth and N Streets, N. W.*

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution is in every sense a modern College hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Owing to the favorable location of the Hospital, the Outdoor Service and Emergency Department enjoys an unusual field of activity, a matter of great importance to the students, as they receive special training in the effective management of emergency cases. Clinics and Ward Classes are conducted by the following professors of this school and by members of the Hospital and Dispensary staff:

*Surgical*—Dr. Vaughan.

*Medical*—Drs. Adams, Morgan, Thomas, Devereaux, Roy Adams, Blackiston and Gannon.

*Gynecological*—Drs. Johnson and Kelley.

*Diseases of the Eye and Ear*—Drs. Wilmer, Dufour and Muncaster.

*Diseases of the Throat, Chest and Nose*—Drs. Wells, Thomas and Gwynn.

*Neurology*—Dr. Hickling.

*Dermatology*—Dr. Blackiston.

### CHILDREN'S HOSPITAL.

*W Street between Twelfth and Thirteenth Streets, N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to observe and comprehend thoroughly the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2.30 to 4.30

P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Adams and Griffith, who are on the Staff, will give clinical instruction at this hospital.

## CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.

*Fifteenth Street and Ohio Avenue, N. W.*

During the last year over 15,000 patients were treated here, and over 2,200 surgical operations performed, many of capital importance. Unusual opportunities are afforded for acquiring practical experience in the ordinary duties of a physician. As a large proportion of the serious cases of accident that occur in the city are first brought to this hospital because of its central location, students become rapidly trained in the effective treatment of injuries demanding prompt assistance, and of that class of cases likely to be of the most importance to the young practitioner. Students are admitted to the services. The hospital offers excellent facilities for clinical instruction, and the ambulance service and casualty wards afford special advantages for studying traumatic and operative surgery.

The Lionel Laboratory, established in connection with the hospital, affords a fine opportunity for the study of practical bacteriology, pathology and Röntgen-ray work in association with surgery and medicine. Drs. Johnson, Magruder and Adams are on the Consulting Board.

Regular clinics are given by the following Professors of this school and other members of the staff:

*Surgical*—Dr. Vaughan.

*Medical*—Dr. J. D. Morgan.

*Diseases of the Eye and Ear*—Drs. Wilmer, Dufour and Muncaster.

*Physical Diagnosis and Diseases of the Chest, Throat and Nose*—Drs. Murray, Thomas and Wells.

## EPISCOPAL EYE, EAR AND THROAT HOSPITAL.

*1147 Fifteenth Street, N. W.*

This Hospital affords unusual facilities for clinical teaching in the specialties for which it is especially equipped.

Ophthalmological Classes by Drs. Wilmer and Greene.

Laryngological and Otological by Dr. Wells.

**GARFIELD HOSPITAL.***Florida Avenue and Tenth Street, N. W.*

This Hospital also affords excellent facilities for clinical teaching, being splendidly equipped with all modern appliances. Regular clinics are given.

*Medical*—Dr. J. D. Morgan.

*Nose, Throat and Ear*—Dr. W. A. Wells.

**PROVIDENCE HOSPITAL.***Second and D Streets, S. E.*

This Hospital has 310 beds, of which over 150 are free for medical and surgical cases. Clinics open to physicians and students of medicine are given at 12 noon, as follows: *Tuesday*, gynecology; *Thursday*, surgery and allied branches and laryngology; *Saturday*, internal medicine.

In all the above Hospitals, containing over 3,000 beds, the positions of Resident and Assistant Resident Physicians are open to competitive examination to graduates of this school.

In addition to the foregoing, clinics will be given by:

Dr. William A. White, *Mental and Nervous Diseases*, at Government Hospital for the Insane.

Dr. I. S. Stone, *Gynecological*, Columbia Hospital.

Dr. Wm. Sprigg, *Obstetrical*, Columbia Hospital.

Dr. D. Percy Hickling, *Neurological, Medical and Surgical*, Washington Asylum Hospital.

Dr. John D. Thomas, *Physical Diagnosis*, Tuberculosis Hospital.

**EXAMINATIONS.**

The standing of a student in any branch will be determined by combining the record of his recitations, his examinations (both written and oral), and his laboratory and clinical work.

At the end of each session examinations will be held as follows:

The *First Class* upon anatomy, osteology, histology, embryology, chemistry, physics, physiology and materia medica.

The *Second Class* upon anatomy, physiology, chemistry and toxicology, urinalysis, therapeutics, bacteriology, pathology, minor surgery.

The *Third Class* upon therapeutics, physical diagnosis, the practice of medicine, surgery, obstetrics, gynecology, general special pathology, pathology, and morbid anatomy, medical zoology, surgical pathology, mental and nervous diseases, and hygiene.

The *Fourth Class* upon the practice of medicine, surgery, obstetrics, gynecology, laryngology and ophthalmology, and otology, State med-



icine, mental and nervous diseases, dermatology, electro-therapeutics, special pathology and morbid anatomy, surgical pathology and military surgery.

### RE-EXAMINATIONS.

A second examination for those who have been found deficient in any of the work of the first three years will be held at the opening of the following session, and students will not be permitted to advance to higher classes if they have more than two conditions in the previous year's work after such re-examination. These conditions must be passed off before the end of the school year on which the student enters; that is to say, the conditions of the first year must be passed off before the end of the second year, and the conditions of the second year must be passed off before the end of the third year. No student will be permitted to enter the fourth year until all conditions of the third year shall have been removed.

### REQUIREMENTS FOR GRADUATIONS.

The candidate must be of good moral character and at least twenty-one years of age. He must have studied medicine not less than four years, during which he must have attended four full courses of instruction in four calendar years, each annual course to have been of not less than thirty teaching weeks' duration in some recognized medical school, the last of which shall have been delivered in this institution, and no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

### FEES.

Matriculation (payable but once) .....	\$ 5.00
Tuition, each year . . . . .	150.00
Graduation fee . . . . .	10.00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to make an annual deposit of \$10.00 to cover loss, breakage or damage to the property of the school. This deposit, less the charges made against it, is refunded to the student upon his withdrawal.

### FEES FOR SPECIAL STUDENTS.

Didactic lectures from each of the chairs.....	\$20.00
Practical anatomy, chemistry, including material.....	25.00
Didactic and laboratory course in histology, pathology or bacteriology, each . . . . .	25.00
Operative surgery on the cadaver, per course .....	25.00

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing.

A student repeating a course for any reason will be charged full fees for that course.

The expenses of a student during the school year, including tuition, books, board and lodging, laundry, and other incidentals, need not exceed \$350.00, and \$425.00 will be a liberal allowance.

Checks should be made payable to the School of Medicine, Georgetown University.

For further information apply in person or by letter to

GEORGE M. KOBER, M. D., *Dean,*  
920 H Street, N. W., Washington, D. C.

Telephone Main 632.

H B. MERRITT, *Curator.*

## GRADUATES.

## DEGREE OF M. D.

LOUIS MYLIUS BABENDREIER.....	DISTRICT OF COLUMBIA
ANDREW JOSEPH BRUDER.....	WISCONSIN
MICHAEL JAMES CARROLL.....	MASSACHUSETTS
ERNESTO ESPINOSA CASARES.....	MEXICO
ALFONSO ORTIZ DAVILA.....	MEXICO
CHARLES ALPHONSUS DUFFY.....	PENNSYLVANIA
NATHAN SHERWOOD FERRIS.....	DISTRICT OF COLUMBIA
ROBERT MORTIME KILGOUR.....	VIRGINIA
RALPH MICHAEL LeCOMPTE.....	PENNSYLVANIA
EDWARD J. McGOVERN.....	RHODE ISLAND
JAMES MADISON MOSER.....	DISTRICT OF COLUMBIA
WILLIAM ALOYSIUS MULVEY.....	RHODE ISLAND
PHILIP NEWTON .....	DISTRICT OF COLUMBIA
GEORGE SHIRAS SCHOYER.....	PENNSYLVANIA
RICHARD NEVITTE SUTTON.....	VIRGINIA

## DEGREE OF D. D. S.

STANLEY EVERTON ARMSTRONG....	NEW YORK
GEORGE HEILMANN BECKER.....	DISTRICT OF COLUMBIA
FREDERICK CARY .....	NEW YORK
WALTON C. CARROLL.....	MARYLAND
WILLIAM MICHAEL FANNING.....	RHODE ISLAND
WILLIAM ALLYN HARRISON, Jr.....	CONNECTICUT
C. HUGH MONROE.....	VIRGINIA
WALDO ROBERTS PEARCE.....	DISTRICT OF COLUMBIA
CHARLES REXFORD PELTON.....	MICHIGAN
CASIMIR E. PERRIER.....	RHODE ISLAND
FRANCIS JOSEPH ROGERS.....	MASSACHUSETTS
WILLIAM BROWN SEWARD.....	OHIO
LEO WILLIAM SOLBACH.....	MARYLAND

## MEDICAL SCHOOL.

## MATRICULATES, 1910-1911.

Allen, George J. ....Charlestown, W. Va.  
 Allen, James H. ....Brockton, Mass.  
 Atkins, Paul N. ....Oxford, Miss.

Bannan, Joseph W. ....Providence, R. I.  
 Bariscillo, John J. ....Asbury Park, N. J.  
 Barrett, Park M. ....Moundsville, W. Va.  
 Barton, Louis O. ....Trenton, N. J.  
 Brandes, C. H. ....Russia.  
 Brennan, John T. ....Brockton, Mass.  
 Brick, George J. ....Fanwood, N. J.  
 Brown, Joseph R. ....Napa, Cal.  
 Brown, Leslie L. ....Natick, Mass.  
 Bragaw, George D. ....Washington, D. C.  
 Burns, William P. ....Washington, D. C.  
 Byington, S. B. ....Silver Springs, Md.  
 Byrnes, Thomas E. ....Worcester, Mass.  
 Bonness, E. J. ....St. Stephens, N. B.  
 Burke, Joseph P. ....Pittston, Pa.

Cardenas, J. A. ....Peru, S. America.  
 Cauley, Stephen ....Robinson, Ill.  
 Chamblin, L. L. ....Philomont, Va.  
 Clizer, C. B. ....Spokane, Wash.  
 Collins, Lawrence ....Bath, N. H.  
 Conley, Edward P. ....Portland, Maine.  
 Connolly, Vincent T. ....Paterson, N. J.  
 Cremens, J. F. ....Cambridge, Mass.  
 Curtin, Eugene A. ....Dunmore, Pa.

Daly, James R. ....Providence, R. I.  
 Donoghue, J. A. ....Washington, D. C.  
 Duehring, Frank E. ....Washington, D. C.  
 Dugan, Charles L. ....Washington, D. C.

Farden, J. Leroy. ....Washington, D. C.  
 Figueras, James J. ....San Juan, Porto Rico.  
 Fischer, Melville B. ....Washington, D. C.  
 Fitzpatrick, Frank P. ....Malden, Mass.  
 Fitzpatrick, Thomas H. ....North Adams, Mass.  
 Flanagan, Leo J. ....Napa, Cal.  
 Forston, Keene R. ....Lexington, Ky.

Gagion, Thomas P.....	Wilkesbarre, Pa.
Galloway, Ballard E.....	Washington, D. C.
Gendreau, E. Alfred M.....	Providence, R. I.
Gibbs, Francis D.....	Washington, D. C.
Gibson, Frank L.....	Holyoke, Mass.
Gorman, James F.....	Manchester, Conn.
Gottbrath, Norbert .....	Louisville, Ky.
Groark, Owen J.....	New Haven, Conn.
Guerra, Arthur L.....	Mexico.
Guilfoile, V. G.....	Waterbury, Conn.
Guinan, Edwin T.....	Hartford, Conn.
Halpin, James A.....	Washington, D. C.
Hand, Edward P.....	Holyoke, Mass.
Harrah, Owen J.....	Washington, D. C.
Harrop, Daniel S.....	River Point, R. I.
Helfgott, Max A.....	Washington, D. C.
Helfgott, Nathan .....	Washington, D. C.
Healy, Charles L.....	Oswego, N. Y.
Higgins, John M.....	Sayre, Pa.
Hogan, William J.....	Holyoke, Mass.
Hooper, Lionel E.....	Covington, Ky.
Howard, Leroy G.....	Washington, D. C.
Hunt, Leo J.....	Bellaire, Ohio.
Kane, John F.....	Minooka, Pa.
Kelly, Joseph D.....	New York City, N. Y.
Kelly, William L.....	Youngstown, Ohio.
Kelsea, William H.....	Lansdowne Sta., N. S.
Kennedy, William C.....	Waterbury, Conn.
Lally, William J.....	North Adams, Mass.
LaRiviere, Evariste .....	Manville, R. I.
Leonard, Joseph C.....	Pittston, Pa.
Lewis, Edward H.....	Washington, D. C.
Linck, Claude F.....	Utica, N. Y.
Little, Arthur B.....	Hickory, N. C.
McCarthy, Joseph J.....	Washington, D. C.
McCormack, Frank C.....	Halstead, Pa.
McDonald, Richard J.....	Paterson, N. J.
McGuire, Charles J.....	Coraopolis, Pa.
Madigan, Patrick S.....	Anacostia, D. C.
Madigan, Robert E.....	Anacostia, D. C.
Mahoney, Andrew W.....	Providence, R. I.



Michalski, Joseph .....	Scarbro, W. Va.
Milan, Maurice G.....	Brockton, Mass.
Milligan, Leo T.....	Huntsville, Ala.
Mistretta, Ferdinand H.....	Palermo, Italy.
Moore, Thomas Verner.....	Brookland, D. C.
Moreno, Jos. de R.....	Pensacola, Fla.
Moriarty, Patrick M.....	Bondville, Mass.
Morris, Forrest V.....	Heman, Okla.
Mulford, J. Bentley.....	Washington, D. C.
Murphy, Frank L.....	Dunsmore, Pa.
Murphy, Harry L.....	Coraopolis, Pa.
Neary, Lawrence .....	Union City, Conn.
Neuman, Lester .....	Washington, D. C.
Norman, Joseph J.....	Providence, R. I.
O'Donnell, W. F.....	Washington, D. C.
O'Neil, Dillon G.....	Elgin, Ill.
Offutt, Harry D.....	Garrett Park, Md.
Peabody, Joseph W.....	Wakefield, Mass.
Pelzman, Ivy A.....	Washington, D. C.
Posey, O. J.....	Washington, D. C.
Pracher, John .....	Vienna, Austria.
Potts, William T.....	New Martinsville, W.Va.
Rafter, Robert A.....	Washington, D. C.
Ready, Frank J.....	Washington, D. C.
Richardson, Joseph A.....	Washington, D. C.
Richmond, Paul, Jr.....	Washington, D. C.
Rivera, Castor L.....	San Germain, P. R.
Rivera, Pascual A.....	San Germain, P. R.
Ros, Gustavo A.....	David, Panama.
Ruppert, Charles C.....	Washington, D. C.
Sanders, Charles H.....	Washington, D. C.
Schirch, George .....	Holyoke, Mass.
Schloer, Charles A.....	Washington, D. C.
Schreiber, Frederick .....	Washington, D. C.
Selinger, Jerome .....	Washington, D. C.
Spiegel, Harry .....	Odessa, Russia.
Sprinkle, Jesse F.....	Washington, D. C.
Stanton, William J.....	Warren, R. I.
Stotemyer, George B.....	Washington, D. C.
Sullivan, Joseph C.....	Webster, Mass.
Sullivan, M. X.....	Fall River, Mass.

Thomas, J. F.....	Congress Heights, D. C.
Thornley, Roy D.....	Taunton, Mass.
Thompson, A. Contee.....	Gaithersburg, Md.
Townsend, James G.....	Kensington, Md.
Vaughan, William W.....	Washington, D. C.
Velez, Modesto .....	Lajas, Porto Rico.
Watts, John F. ....	Waterbury, Conn.
Wenzell, Albert G.....	Brooklyn, N. Y.
Zinkham, Arthur M.....	Washington, D. C.
Zinkham, Paul H.....	Washington, D. C.
Zychowicz, John F.....	Scranton, Pa.

## DENTAL DEPARTMENT.

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### MEMBERS OF THE FACULTY AND OTHER OFFICERS.

REV. JOSEPH HIMMEL, S. J.,  
*President of Georgetown University.*

SHIRLEY W. BOWLES, D. D. S.,  
*Vice-President and Professor of Prosthetic Dentistry.*  
1616 I Street.

WILLIAM N. COGAN, D. D. S.,  
*Dean of the Faculty and Professor of Operative and Prosthetic Technics.*  
926 Farragut Square.

GEORGE M. KOBER, M. D., LL. D.,  
*Treasurer of the Faculty.*  
1819 Q Street.

H. JEROME ALLEN, M. D., D. D. S.,  
*Chairman of the Curriculum Committee and Professor of Operative Dentistry.*  
1616 I Street.

WALTER D. WEBB, M. D.  
*Major and Surgeon U. S. Army, Retired.*  
*Professor of Oral Surgery.*  
Soldiers' Home, D. C.

JOHN A. WATLING, D. D. S.,  
*Professor of Metallurgy and Clinical Dentistry.*  
The Mendota.

CHARLES A. HAWLEY, D. D. S.,  
*Professor of Orthodontia.*  
Rochambeau.

BRUCE L. TAYLOR, D. D. S.,  
*Professor of Dental Pathology and Lecturer on Dental Histology.*  
Westory Building.

JAMES T. MCCLENAHAN, D. D. S.,  
*Professor of Dental Medicine and Therapeutics, and Superintendent of Infirmary and Laboratory.*  
926 Farragut Square.

FRANK BAKER, A. M., M. D., PH. D.,  
*Professor of Anatomy.*

1788 Columbia Road.

JOHN D. HIRD, A. M., LL. M.,  
*Professor of Chemistry and Toxicology.*

1806 Lamont Street.

EDWIN B. BEHREND, A. B., M. D.,  
*Professor of Pathology and Bacteriology.*

1214 K Street.

WILFRED M. BARTON, M. D.,  
*Professor of Materia Medica and Therapeutics.*

1730 Connecticut Avenue.

JOSEPH S. WALL, M. D.,  
*Professor of Physiology.*

2017 Columbia Road.

WM. C. WOODWARD, M. D., LL. M.,  
*Professor of Dental Jurisprudence.*

1766 Lanier Place.

REV. FRANCIS A. TONDORF, S. J.,  
*Professor of Physics.*

CHESTER A. BAKER, D. D. S.,  
*Associate Professor of Crown and Bridge Work.*

The Burlington.

CLYDE M. GEARHART, D. D. S.,  
*Associate Professor of Oral Hygiene and Prophylaxis.*

1616 I Street.

## INSTRUCTORS AND DEMONSTRATORS.

HORATIO D. DAWSON, D. D. S.,  
HARRY B. RILEY, D. D. S.,  
LEO M. SOLBACH, D. D. S.,  
*Operative Technics.*

F. A. CASTEEL, D. D. S.,  
C. H. MONROE, D. D. S.,  
*Prosthetic Technics.*

L. F. DAVIS, M. D., D. D. S.,  
*Clinical Instructor, Anesthesia and Extraction.*

RALPH A. HAMILTON, M. D.,  
*Associate to Professor of Bacteriology and Pathology.*

HENRY R. SCHREIDER, M. D.,  
*Associate to Professor of Physiology.*

CHARLES I. GRIFFITH, PHARM. D., M. D.,  
*Associate to Professor of Materia Medica and Pharmacy.*

JOHN A. FOOTE, M. D.,  
*Histology.*

RALPH A. LE COMTE, M. D.,  
*Histology.*

PRENTISS WILLSON, M. D.,  
*Osteology.*

### THE INFIRMARY AND LABORATORY.

JAMES T. McCLENAHAN, D. D. S.,  
*In Charge.*

FRANK A. CASTEEL, D. D. S.

P. BONNARD BAIN, D. D. S.

DAMON BINKERT, D. D. S.

FRANCIS J. ROGERS, D. D. S.

### DENTAL STAFF OF CLINICAL DIRECTORS.

MARK F. FINLEY, D. D. S.,  
*Chief Clinical Director and Professor of Clinical Dentistry.*

### ASSOCIATE DIRECTORS OF CLINICAL DENTISTRY.

J. H. LONDON, D. D. S.

L. F. DAVIS, D. D. S.

DAMON BINKERT, D. D. S.

W. E. DIEFFENDERFER, D. D. S.

T. L. RUST, D. D. S.

W. E. PAIRO, D. D. S.

P. W. EVANS, D. D. S.

C. W. SCOTT, D. D. S.

R. A. BATES, D. D. S.

M. O. DAVIS, D. D. S.

D. BINKERT, D. D. S.

H. McNAMEE, D. D. S.



## REQUISITES FOR ADMISSION.

Candidates for admission must hereafter have a minimum preliminary education of not less than four years from an accredited High School or its equivalent. The preliminary examination will not be required of an applicant who can show that he has covered the work of such an examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.

Graduates in medicine are eligible for admission to the second class, and are excused from examination in the studies pertaining to the medical course of recognized institutions.

Those presenting certificates of examination for advanced standing from other reputable dental colleges of equal requirements will be admitted to the corresponding higher class without further examination.

The preliminary examinations will be held at the college building on Monday, September 26th, and Tuesday, September 27th. The regular evening session will begin Wednesday, September 28, 1910, and end May 31, 1911. The lectures each day will begin at 5 P. M. The Infirmary will be open from 1 to 5 P. M.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless such delay is due to sickness, which must be vouched for by the certificate of a reputable practicing physician. In such case the date of admission shall not be later than twenty days from the opening day.

## METHODS OF INSTRUCTION.

The course of instruction will consist of clinical and illustrated lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instructions. The number of students taken in each class allows each member to come into close contact with the professors, and insures the most thorough individual instruction. The Dental Laboratory is fully equipped with electrical lathes, furnaces, rolling mill, vulcanizers, celluloid apparatus, lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begins with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction, in its progress, includes consideration of the construction of artificial dentures and obturators in all their wide variety.

THE CLINICAL DEPARTMENT OR INFIRMARY consists of large *operating rooms*, supplied with all the latest equipments. The chairs are so arranged as to command the best light. There is a separate room

for the administration of anesthetics for the extraction of teeth; also for taking impressions, occlusions, and doing work requiring the use of plaster or wax.

There is also a department of Oral Surgery attached to the Georgetown University Hospital, where students have the privilege of witnessing all the operations pertaining to cleft palate, hare-lip, fractured maxilla, empyema of antrum, etc. Both infirmaries are under the immediate and continuous direction of a corps of competent demonstrators, who are ready to instruct and assist the students in their work. In these departments the student is taught the art of operative and prosthetic dentistry. The press of patients is very great, and the opportunity for practice is excellent. The student not only witnesses every kind of dental manipulation as practiced by the experienced operator, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.

This intimate union of theoretical and practical instruction will be insisted on during the entire session.

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NO STUDENT WILL BE ALLOWED TO OPERATE IN THE INFIRMARY unless provided with the necessary instruments, a list of which may be obtained on application to the demonstrator in charge, with the exception of forceps, lathes, and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

Students must continue in attendance until the close of the session in order to obtain credit for the full term.

Any student associated in any capacity in an advertising dental office will not be allowed to continue his course.

The operating rooms of the college are open for instruction the entire year, and students are *obliged* to attend regularly each session during the year.

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## CURRICULUM.

The instruction embraces a graded course of three years, each course followed by examinations thereon.

Punctual attendance upon the lectures and clinics is required of all students. The Faculty reserves the right to exclude from examinations, either in course or final, any student who has been habitually absent from lectures or other exercises.

The following is a schedule of the time per week devoted to each study.

## FIRST YEAR.

<i>Lectures and Recitations.</i>	<i>Laboratory.</i>
Anatomy .....	4 hours.....As Assigned.....
Osteology .....	2 hrs. for 3 mos....
Histology, General and Dental.....	4 hours.....
Materia Medica .....	2 hours.....1 hour .....
Chemistry .....	3 hrs. for 3 mos....3 hrs. for 3½ mos..
Physics .....	1 hour .....
Operative Technics .....	1 hour .....
Prosthetic Technics .....	1 hour .....
Operative Dentistry .....	2 hours.....2 hours.....
Prosthetic Dentistry .....	2 hours.....2 hours.....
Physiology .....	3 hours.....

## SECOND YEAR.

Anatomy .....	4 hours.....As Assigned.....
Physiology .....	4 hours.....
Therapeutics .....	3 hours.....
Chemistry .....	3 hrs. for 3 mos....3 hrs. for 3 mos....
Bacteriology .....	12 hrs. for 2 mos...
Operative Dentistry .....	2 hours.....2 hours.....
Prosthetic Dentistry .....	2 hours.....2 hours.....
Oral Surgery .....	1 hour .....
Dental Pathology .....	1 hour .....
Infirmity Practice .....	As assigned.....

## THIRD YEAR.

General Pathology .....	3 hours.....3 hours.....
Oral Surgery .....	1 hour .....
Dental Pathology .....	1 hour .....
Prosthetic Dentistry .....	2 hours.....
Operative Dentistry .....	2 hours.....
Metallurgy .....	1 hour .....
Dental Medicine—Therapeutics..	1 hour .....
Orthodontia .....	1 hour .....
Ceramics .....	1 hour .....
Infirmity Practice .....	18 hours.....

## COURSE OF STUDY.

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### ORAL PROSTHESIS.

PROF. SHIRLEY W. BOWLES, D. D. S., In Charge.

C. A. HAWLEY, D. D. S., *Orthodontia*.

J. A. WATLING, D. D. S., *Metallurgy*.

C. A. BAKER, D. D. S., *Crown and Bridge Work*.

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral appliances.

The more important subjects considered are: The preparation and treatment of the mouth for artificial dentures, the taking of impressions, a system of perfect articulations, the method of constructing the different bases used for dentures, and the construction and application of obturators.

Esthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

A special feature of the teaching in this department will be the exhaustive study of Crown and Bridge work. Students will be thoroughly grounded in the principles of a safe and conservative practice, so that they may clearly appreciate the indications for Crown and Bridge work. This will be accomplished by clinical instructions, as well as special demonstrations.

Careful attention will be paid to the chemistry of metals and all the materials used.

### METALLURGY.

A thorough knowledge of metal used in dentistry is taught. Students are also instructed in the art of making and tempering instruments. The amalgam used in the school is made by the students under the supervision of the Professor of Metallurgy.

### ORTHODONTIA.

The treatment of irregularities of the dental arch requires great skill and judgment. Lectures upon this subject will be thoroughly practical, and the student will be taught the most approved and scientific methods of correcting these deformities. This course of teaching will be illustrated by practical cases.

## CROWN AND BRIDGE WORK.

In addition to the presentation of this subject under Oral Prosthesis, a technical and a clinical course will be given with special instruction in porcelain crown and bridge work.

## OPERATIVE DENTISTRY.

PROF. H. J. ALLEN, M. D., D. D. S., In Charge.

B. L. TAYLOR, D. D. S., *Dental Pathology.*

J. T. McCLENAHAN, D. D. S., *Dental Medicine and Therapeutics.*

C. M. GEARHART, D. D. S., *Oral Hygiene and Prophylaxis.*

J. A. WATLING, D. D. S., *Clinical Dentistry.*

F. A. CASTEEL, D. D. S., *Clinical Dentistry.*

Instruction in this course presents the approved methods, appliances and materials used in filling teeth, together with the principles which form the basis of practice.

The treatment and restoration of diseased teeth and associated structures is presented from a combined mechanical and therapeutical standpoint.

These lectures are supplemented by practical instruction in the clinical operating room and laboratories by competent demonstrators and instructors.

## DENTAL PATHOLOGY.

The histology and embryology of the teeth and surrounding parts are reviewed, and a general discussion of the diseases of the teeth and the mouth given with clinical demonstrations.

## DENTAL MEDICINE AND THERAPEUTICS.

Special attention will be given to dental pharmacology and the practical application of such drugs and agents as are generally used in a dental infirmary or in actual practice.

The oral manifestations of systemic conditions will receive attention.

## ORAL HYGIENE AND PROPHYLAXIS.

This important subject will be thoroughly presented by a series of lectures, supplemented by clinical demonstrations in the infirmary.



## OPERATIVE AND PROSTHETIC TECHNICS.

PROF. W. N. COGAN, D. D. S., In Charge.

H. D. DAWSON, D. D. S.,

H. B. RILEY, D. D. S.,

L. M. SOLBACH, D. D. S.,

*Operative Technics.*

F. A. CASTEEL, D. D. S.,

C. H. MONROE, D. D. S.,

*Prosthetic Technics.*

This course, while of importance to all new students, possesses especial value to such as have not had the advantage of office pupilage and laboratory work before entering college. It combines the features of manual training and exact observation, enabling the student to become familiar with the forms and tissues of the teeth, and to acquire a certain dexterity in the use of instruments before operating upon the living subject.

## ORAL SURGERY.

PROF. WALTER D. WEBB, Major and Surgeon, U. S. A., Retired.

Oral surgery is a specialty which is a distinct outgrowth from dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the most advanced methods of operative technic, surgical anesthesia, asepsis, and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and treat personally cases under the supervision of the Professor of Oral Surgery and his assistants.

## ANATOMY.

PROF. FRANK BAKER, M. D., PH. D., In Charge.

JOHN CONSTAS, M. D., *Demonstrator of Anatomy.*

JOHN A. FOOTE, M. D., *Instructor in Histology.*

B. L. TAYLOR, D. D. S., *Instructor in Dental Histology.*

PRENTISS WILLSON, M. D., *Instructor in Osteology.*

General anatomy will be thoroughly taught by this chair in the most careful manner. Models, plates, and the cadaver are abundantly supplied for the proper illustration of this subject. Special attention

will be given to the descriptive anatomy of the head, face, neck and oral cavity.

For Histology and Osteology, see page 32.

The demonstrator of practical anatomy will have charge of the class in the dissecting room, where dissecting material will be supplied in abundance.

## DENTAL HISTOLOGY.

The lectures on this subject include the comparative anatomy and the development of the teeth and their component tissues, with the functions of dental organs, all viewed from the standpoint of the practical dental practitioner.

## PHYSIOLOGY.

PROF. JOSEPH S. WALL, M. D., In Charge.

HENRY R. SCHREIBER, M. D., Assistant.

One of the features of the progress and developing of modern Dentistry is its closer association with the wider field of General Medicine, through recognition of the fact that the foundations of each special branch are common to all. The dental practitioner of to-day, therefore, must acquire a fuller knowledge of the whole organism, in order that he may the more intelligently deal with that part of it which is his immediate province. To this end the student will find, in this course, especial emphasis laid upon the fundamental principles of Physiology, while the practical application will be pointed out in lectures, recitations, and practical demonstrations.

## MATERIA MEDICA AND THERAPEUTICS.

PROF. WILFRED M. BARTON, M. D., In Charge.

CHARLES I. GRIFFITH, PHARM. D., M. D., Associate.

JAMES T. McCLENAHAN, D. D. S., *Dental Medicine*.

A complete course of materia medica and general therapeutics will be given by this chair, while special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anesthesia, the contraindication to their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anesthetics.

## CHEMISTRY AND TOXICOLOGY.

PROF. JOHN D. HIRD, A. M., M. D., In Charge.

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the vital chemistry of anesthetics, the special chemistry of the mouth, the stomach, and intestinal tract.

## PATHOLOGY AND BACTERIOLOGY.

PROF. EDWIN B. BEHREND, A. B., M. D., In Charge.

RALPH A. HAMILTON, M. D., Associate.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical, and embrace full laboratory teaching of the most important subjects of these studies.

## PHYSICS.

PROF. FRANCIS A. TONDORF, S. J.

A course in the elements of physics, with special reference to their application to medicine and dentistry, will be given during the first year.

## GRADUATION.

At the close of the third year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D. D. S.) on the following conditions:

Candidate must be of age and of good moral character.

Candidate must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction in all departments, and the last course of instruction must have been at this college.

Candidates must sign an agreement with the Dean to live up to the ethics of the profession.

The examinations are conducted orally, and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon the natural organs performed in the Dental Infirmary must be exhibited to the Professor of Operative Dentistry, and such other specimen work as he may require; also an approved specimen of dental mechanism con-

structed in the Dental Laboratory upon a model of practical use must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

### FEES.

Matriculation (payable but once).....	\$ 5.00
Tuition, each year.....	125.00
Graduation Fee .....	10.00

Students will be required to make an annual deposit of \$10.00 to cover loss, breakage or damage to the property of the school. This deposit, less the charges made against it, is refunded to the student upon his withdrawal.

A student repeating a course will be charged full fees for that course.

Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st ensuing. This payment must be made upon registration, and students will not be admitted for re-examination without previous registration.

The expenses of a student during the eight months, including tuition, books, board and lodging, laundry and other incidentals need not exceed \$350.00, and \$425.00 will be a liberal allowance.

For further information apply in person or by letter to

WILLIAM N. COGAN, *Dean*, D. D. S.,  
920 H Street, N. W., Washington, D. C.

H. B. MERRITT, *Registrar*,  
920 H Street, N. W.

## DENTAL SCHOOL.

### Matriculates 1910-1911.

Agusti, Conrado C.....	Cuba.
Alley, Edward C.....	Ashland, Ky.
Amiat, William F.....	Worcester, Mass.
Ashton, J. T.....	Alexandria, Va.
Augenstein, Melvin M.....	Washington, D. C.
Bare, Don L.....	Pleasantville, Iowa.
Boe, Edward J.....	Minneapolis, Minn.
Borchardt, Herbert .....	Washington, D. C.
Bradley, Harry C.....	Washington, D. C.
Bradley, James F.....	Wilmington, Del.
Brandez, Clarence A.....	Russia.
Burns, James R.....	Pawtucket, R. I.
Buscher, Bernard S.....	Washington, D. C.
Butler, James M.....	Washington, D. C.
Byrne, W. Fred.....	Lowell, Mass.
Callahan, Hugh B.....	Fulton, Ky.
Calvert, Samuel C.....	Sioux City, Iowa.
Chaffiot, Emanuel .....	Washington, D. C.
Christiansen, E. E.....	Salt Lake City, Utah.
Clevenger, O. B.....	Asheville, N. C.
Conley, Maurice J.....	Somersworth, N. H.
Daniels, John L.....	Gerardstown, Pa.
Davis, W. J.....	Cuba, N. Y.
Delaney, J. A.....	Alexandria, Va.
Donn, John B.....	Washington, D. C.
Dudley, J. L.....	Point Pleasant, N. J.
Duff, Valentine .....	Dorchester, Mass.
Dunn, James P.....	Taunton, Mass.
Eberly, J. Lee.....	Halton, Pa.
Fairbanks, Leigh C.....	Washington, D. C.
Finan, William J.....	New York City, N. Y.
Flavin, P. T.....	Concord, Mass.
Flores, Placido .....	Philippine Islands.
Fontaine, E. R.....	Washington, D. C.
Fowler, George A.....	Washington, D. C.
Furbershaw, Thomas L.....	Brooklyn, N. Y.



Gausmann, W. L.....	Louisville, Ky.
Groden, Peter F.....	New York City, N. Y.
Golden, Edward E.....	Washington, D. C.
Goldsworthy, Joseph .....	Mitchell, S. Dak.
Gunter, Charles .....	Blue Mountain, Miss.
Hafey, Francis X.....	Holyoke, Mass.
Haliday, R. E.....	Washington, D. C.
Hanagan, Thomas E.....	Somersworth, N. H.
Harris, John E.....	Washington, D. C.
Harvey, Harry E.....	Washington, D. C.
Hegarty, John E.....	Idaho Falls, Idaho.
Henry, Wesley P.....	Greenville, Ind.
Hernandez, Guillermo .....	Porto Rico.
Hildreth, A. J.....	Kentucky.
Hobbs, Charles B.....	Johnstown, Pa.
Hurley, Henry J.....	Gilbertsville, Mass.
Jarboe, Eugene B.....	Poolesville, Md.
Johnson, Carroll C.....	Orange, Va.
Keehan, James H.....	Wilmington, Del.
Kelly, Frank .....	Evarts, Ky.
Kelly, W. E.....	Philadelphia, Pa.
Kelly, Thomas E.....	Brockton, Mass.
King, James L. G.....	Takoma Park, D. C.
Kraft, Eugene .....	Rochester, N. Y.
Lally, Frank A.....	Wilmington, Del.
Lally, John J.....	North Adams, Mass.
Lanahan, W. J.....	Washington, D. C.
Lane, T. F.....	Washington, D. C.
Lehman, Hugo .....	New York City, N. Y.
Leon, Albert K.....	Washington, D. C.
Linton, Howard .....	Washington, D. C.
Lohr, Vernon J.....	Timberville, Va.
Lowell, Walter E.....	Washington, D. C.
McGauley, Walter G.....	Worcester, Mass.
McGlone, Albert V.....	Natick, Mass.
McGovern, James A.....	Reading, Pa.
McVeigh, Alphonsus B.....	Wilmington, Del.
Mack, Charles F.....	Washington, D. C.
Mackey, William T.....	Lenox, Mass.
Major, James A.....	Rogers, Nebr.
Maples, Albert H.....	Washington, D. C.
Marsh, Bradford C.....	Newport, R. I.

Martin, C. H.....	Washington, D. C.
Martin, J. William.....	Brockton, Mass.
Mathiot, Albert D.....	Washington, D. C.
Mertz, L. G.....	Freeport, Ill.
Mess, Henry F.....	Chevy Chase, Md.
Miller, C. P.....	Washington, D. C.
Miner, Philip E.....	New Haven, Conn.
Neely, William C.....	Viriden, Ill.
Nelson, C. F.....	Washington, D. C.
Niebuhr, Louis M.....	La Crosse, Wis.
Nooe, Bennet, 3d.....	Washington, D. C.
Ochs, W. A. C.....	Le Seul, Minn.
Ortiz, Leopoldo V.....	San Juan, Porto Rico.
O'Keefe, Walter .....	Thorndike, Mass.
Patterson, G. ....	Burke, N. Y.
Perry, Ralph P.....	Washington, D. C.
Quinlan, Harold C.....	Meriden, Conn.
Quevedo, M. Garcia de.....	San Juan, Porto Rico.
Quinn, William .....	North Adams, Mass.
Ready, John T.....	Washington, D. C.
Rico, Pedro M.....	Arecibo, Porto Rico.
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Rogers, James W.....	Worcester, Mass.
Rosenthal, Sidney H.....	Washington, D. C.
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Shearer, N. P.....	Washington, D. C.
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Stankard, Fred A.....	Waltham, Mass.
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Stebens, Hans L. F.....	Geesthacht, a. d. Elbe, Germany.
Stockman, Frank J.....	Washington, D. C.
Sullivan, Esmonde R.....	North Adams, Mass.
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Warner, Charles S.....	Forest Hill, Md.
Whitaker, Walter E.....	Salt Lake City, Utah.
Whitehead, John C.....	Washington, D. C.
Willson, Albert B.....	Salem, Va.

# Text Books and Books of Reference

## DENTAL SCHOOL.

The latest editions should always be procured:

*Anatomy*.—Cunningham, Morris or Piersol; Cunningham's Dissector; Broomell's Anatomy and Histology of the Mouth and Teeth; Black's Dental Anatomy.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Ferguson; Piersol; Böhm and von Davidoff; Hubers' and Broomell's Anatomy and Histology of the Mouth and Teeth.

*Physiology*.—Howell; Tiegerstedt; Halliburton.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

*Chemistry*.—Remsen; Harris' Qualitative Analysis; Witthaus' and Becker's Toxicology; Tanner on Poisons; Mitchell's Dental Chemistry and Metallurgy.

*Bacteriology*.—Abbott; McFarland; Hiss; Park-Williams; Stitt; Miller's Micro-organisms of the Human Teeth.

*Pathology*.—Ziegler; Green; Delafield and Prudden; Woodhead; Adams; Burchard's Dental Pathology and Therapeutics; Bodecker's Anatomy and Pathology of the Teeth; Barrett's Oral Pathology and Practice.

*Materia Medica*.—Cushny; Culbreth; Sayre; U. S. or National Dispensatory.

*Therapeutics*.—H. C. Wood; Hare; Potter; Gorgas' Dental Medicine.

*Operative Dentistry*.—Kirk's American Text-Book on Operative Dentistry; C. L. Johnson's Operative Dentistry; The American System of Dentistry, edited by Litch; Weeks' Manual of Operative Technics.

*Prosthetic Dentistry*.—American Text-Book of Prosthetic Dentistry; Kingsley's Oral Deformities; Warren's Compend of Dental Prosthesis and Metallurgy; Guilford's Orthodontia; Jackson's Orthodontia; Goslee's Principles of Crown and Bridge Work.

Syllabus by the Professor of this branch.

*Oral Surgery*.—Marshall's Surgical Injuries and Diseases of the Face, Mouth, and Jaws; McCurdy's Oral Surgery; Syllabus by the Professor of this branch.

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The latest editions should always be procured:

*Anatomy*.—Piersol; Cunningham; Morris; Cunningham's Dissector.

*Embryology*.—Heisler; Marshall; Hertwig.

*Histology*.—Stöhr; Schäfer's Essentials; Stirling; Ferguson; Piersol, Böhm and von Davidoff; Hubers.

*Physics*.—Gage's Elementary and Draper's Medical Physics.

*Chemistry*.—Peters; Remsen; Harris' Qualitative Analysis; Brundage's Toxicology; Rockwood's Physiological Chemistry.



# Text Books and Books of Reference

*Physiology*.—Howell; Tiegerstedt; Stewart.

*Materia Medica*.—Fantus; Culbreth; U. S. Pharmacopœia or National Dispensatory.

*Therapeutics*.—Cushny; H. C. Wood; Hare; Potter.

*Bacteriology*.—Abbott; McFarland; Hiss and Zissner, Park-Williams.

*Pathology*.—Ziegler; Green; Woodhead; Adams.

*Parasites*.—Neumann; Braun; Stiles; Bull. 10-17, and Ransom, Bull. 18, Hygienic Laboratory, U. S. Public Health and Marine Hospital Service.

*Physical Diagnosis*.—Wilson; Anders; Hare; Tyson; Le Fevre; Cabot; Sahli; Green; Webster.

*Practice of Medicine*.—Tyson; Osler; French; Anders; W. Gilman Thompson; Hare's; Edwards.

*Surgery*.—Vaughan's Principles and Practice of Surgery; Da Costa; Bickham, Operative Surgery; Von Bergmann's System of Surgery; Park; Warren's Surgical Pathology; Bradford & Lovett, Orthopedic Surgery; Keyes' Genito-Urinary Diseases; Morton's Genito-Urinary Diseases; White and Martin's Genito-Urinary Diseases.

*Obstetrics*.—Williams; Edgar; Peterson; Hirst; Webster; Wright.

*Gynecology*.—Reed; Penrose; Dudley; American System of Gynecology; Greig Smith's Abdominal Surgery.

*Diseases of Children*.—Rotch; Holt; Starr; Keating's Cyclo-pædia; Taylor and Wells; Koplik.

*Ophthalmology*.—Fuchs; de Schweninitz; Jackson; May; System of Diseases of the Eye, Norris and Oliver; Exposition of Principles of Refraction, Burnett; Refraction and Motility of the Eye, Suter.

*Otology*.—Politzer; Dench; Bacon; Grayson.

*Laryngology and Rhinology*.—Ballanger; Gleason; Packard; Grayson; Gradle; Kyle; Coakley.

*Dermatology*.—Hyde; Kaposi; Jackson.

*Nervous Diseases*.—Nervous and Mental Diseases—Church and Peterson; Text-Book on Nervous Diseases—Dana; Organic Nervous Diseases—Starr, Section on Nervous Diseases in Osler's Practice of Medicine.

*Mental Diseases*.—Practical Manual of Insanity—Brower and Bannister; Mental Diseases—Berkley; Practical Manual of Mental Medicine—Regis; Clinical Psychiatry—Defendorf; Reference Handbook of the Medical Sciences, article on Insanity; Text of Psychiatry; Bianchi.

*Electro-Therapeutics*.—Hadley; Masey; Bigelow.

*Medical Jurisprudence*.—Reese; Taylor; Tidy.

*Hygiene*.—Harrington; Parkes; Egbert; Bergey.

*Dietetics*.—Friedenwald & Ruhräh.

*Dictionary*.—American Medical Dictionary; Dunglison; Dorland.

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SIXTEENTH SERIES

No. 3

# Georgetown University Publication

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## BULLETIN OF THE SCHOOL OF MEDICINE AND DENTAL DEPARTMENT

Announcement for the Session of 1920-1921



Washington, D. C.

Published by Georgetown University—quarterly  
[January to March, 1920]

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# Georgetown University Publication

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BULLETIN OF THE  
SCHOOL OF MEDICINE  
AND  
DENTAL DEPARTMENT

Announcement for the Session of 1920-1921



Washington, D. C.

## CALENDAR FOR 1920-1921

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1920.

Sept. 24 and 25..Examinations for admission and re-examinations each day at 2 P. M.

Sept. 26.....Lectures begin at 1.30 P. M.

Nov. 27.....Thanksgiving Holiday.

Dec. 22.....Christmas recess begins at 5 P. M.

1921.

Jan. 5.....Lectures resumed.

Feb. 22.....Legal Holiday.

March 23.....Easter recess begins at 5 P. M.

March 29.....Lectures resumed at 9 A. M.

May 25.....Lecture course completed.

May 27.....Examinations begin.

June 11.....Commencement.

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†The order of Seniority of members of the faculty is arranged according to date of appointments and is shown by the sequence of their names as published under the various departments



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JOHN D. HIRD, A.M., LL.M.,

*Professor of Chemistry and Toxicology,* 1319 Farragut St. N. W.

FRANCIS A. TONDORF, Ph.D., S.J.,

*Professor of Physiology,* Georgetown College.

WILFRED M. BARTON, M.D.,

*Professor of Materia Medica, Pharmacology and Therapeutics,* 1730 Connecticut Avenue.

RALPH A. HAMILTON, M.D.,

*Professor of Bacteriology and Pathology,* 924 15th Street

WILLIAM O. OWEN, M.D.,

*Professor of Anatomy, Chairman,* 2719 Ontario Rd. N. W.

## FOR STUDENTS OF MEDICINE

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### ANNOUNCEMENT FOR 1920-1921.

The complete course of study in the Medical Department extends over four terms of eight months each.

Special attention is called to the advantages of the method of teaching adopted in this school. It enables each student to come into more intimate relation with his Professors in laboratory and hospital work, and in connection with the system of recitations adopted makes instruction more directly personal and adapted to the special needs of the individual.

The Laboratory building of this department is conveniently located on H Street, Northwest, between Ninth and Tenth Streets, near several of the principal railway lines. It contains spacious and well-ventilated lecture rooms and laboratories, a convenient and well-lighted dissecting room, a library and reading room for the use of students. The laboratories are equipped with the latest and most approved instruments and appliances, including an ample number of microscopes of high power. These greatly enhance the facilities for instruction, and will enable every student to master more readily the technical skill needed in modern important methods of medical research. The laboratory courses may be taken independently of the lectures.

The clinical instruction is carried on in the University Hospital in connection with the general wards, Emergency Service, Outdoor Department, clinical, pathological laboratories and operating rooms. Clinics are also held at the Children's, Garfield, Columbia Hospital for Women, Episcopal Eye and Ear Hospital, the Municipal Hospital, and the Government Hospital for the Insane, containing in all over 3,000 beds.

#### **Libraries.**

The great libraries and museums connected with the various Government institutions at Washington afford advantages to the student that are unrivaled in America, and are equal, if not superior, to those in most European capitals. These collections are freely open to the public, and can be consulted by students upon obtaining permission, readily granted to those who are pursuing special courses of study.

The Library of Congress.....	1,100,000 vols.
The Library of the Surgeon-General's Office..	140,539 vols.
The Library of the National Museum.....	16,000 vols.
The Library of the Museum of Hygiene.....	10,500 vols.
The Library of the Bureau of Ethnology.....	5,000 vols.
The Library of the Bureau of Education.....	30,000 vols.
The Library of the Department of Agriculture	25,000 vols.

### Museums.

The Army Medical Museum.

The Museum of Hygiene.

The United States National Museum.

The Museum of the Agricultural Department.

The Botanical Garden.

The United States National Zoological Park.

### Requisites for Admission.

1. Creditable certificates of good moral character, signed by two reputable persons of good standing in the State in which the applicant last resided.

2. A four-year high school education and two years of collegiate work, including chemistry, physics, with laboratory work, biology, and a modern language, either French or German.

3. Credentials to that effect shall be evaluated by a special Examiner appointed by a competent authority.

4. No student shall be permitted to matriculate or register beyond ten days after advertised date of the opening of the school.

5. The school reserves the right to refuse admission to any student or to terminate the attendance of any student at any time for what may appear to the Faculty to be good and sufficient cause, such as incompetency or conduct unbecoming a gentleman.

### SIX-YEAR COLLEGIATE AND MEDICAL COURSE

by which a student may obtain the degree of Bachelor of Science in Medicine and Doctor of Medicine, was opened in September, 1913. The aim of this course is to give the student a thorough knowledge of those branches which are required for entrance to Medical Schools and at the same time give as much training as possible in studies which impart culture.

1. For admission to the six-year course, students must have completed a four-year course of at least fifteen units in a standard accredited high school or other institution of standard secondary school grade, or have its equivalent as demonstrated by an examination conducted by a duly authorized examiner of the College Entrance Examination Board, or by the authorized examiner of a standard college or university, or by an examiner whose certificates are accepted by such approved standard colleges or universities.

2. During the third and fourth years they take the work of the first and second years of the College of Medicine.

3. At the end of the fourth year they are recommended to the Faculty of the College of Arts and Sciences for the degree of Bachelor of Science in Medicine, and at the end of the sixth year they are recommended by the Faculty of the College of Medicine for the degree of Doctor of Medicine.

4. During the Freshman and Sophomore years candidates for the degree of Bachelor of Science in Medicine observe the same regulations and enjoy the same privileges as the other students of the College of Arts and Sciences.

#### SCHEDULE OF SUBJECTS REQUIRED OR ACCEPTED FOR ENTRANCE TO THE PREMEDICAL COLLEGE COURSE.

Subjects	Units.*	Required.
GROUP I, ENGLISH:		
Literature and composition.....	3-4	3
GROUP II, FOREIGN LANGUAGES:		
Latin .....	1-4	
Greek .....	1-3	
French or German.....	1-4	
Other foreign languages.....	1-4	2†
GROUP III, MATHEMATICS:		
Elementary algebra .....	1	1
Advanced algebra .....	$\frac{1}{2}$ -1	..
Plane Geometry .....	1	1
Solid Geometry .....	$\frac{1}{2}$	..
Trigonometry .....	$\frac{1}{2}$	..
GROUP IV, HISTORY:		
Ancient history .....	$\frac{1}{2}$ -1	} 1
Medieval and Modern History.....	$\frac{1}{2}$ -1	
English history .....	$\frac{1}{2}$ -1	
Civil government.....		
American history .....	$\frac{1}{2}$ -1	

\*A unit is the credit value of at least thirty-six weeks' work of four or five recitation periods per week, each recitation period to be not less than forty minutes. In other words, a unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. A satisfactory year's work in any subject cannot be accomplished under ordinary circumstances in less than 120 sixty-minute hours, or their equivalent.

†Both of the required units of foreign language must be of the same language, but the two units may be presented in any one of the languages specified.

## GROUP V, SCIENCE:

Botany .....	$\frac{1}{2}$ -1	..
Zoology .....	$\frac{1}{2}$ -1	..
Chemistry .....	1	..
Physics .....	1	..
Physiography .....	$\frac{1}{2}$ -1	..
Physiology .....	$\frac{1}{2}$ -1	..
Astronomy .....	$\frac{1}{2}$	..
Geology .....	$\frac{1}{2}$ -1	..

## GROUP VI, MISCELLANEOUS:

Agriculture .....	1-2	..
Bookkeeping .....	$\frac{1}{2}$ -1	..
Business law .....	$\frac{1}{2}$	..
Commercial geography .....	$\frac{1}{2}$ -1	..
Domestic science .....	1-2	..
Drawing, freehand and mechanical .....	$\frac{1}{2}$ -2	..
Economics and economic history .....	$\frac{1}{2}$ -1	..
Manual training .....	1-2	..
Music: Appreciation of harmony .....	1-2	..

Of the fifteen units of high school work, eight units are required, as indicated in the foregoing schedule, the balance may be made up from any of the other subjects in the schedule.

## PREMEDICAL COLLEGE COURSE.

The minimum requirements for admission to this Medical School, in addition to the high school work specified above, will be sixty semester hours of collegiate work, extending through two years, of thirty-two weeks each, exclusive of holidays, in a college approved by the Council on Medical Education.

## SCHEDULE OF SUBJECTS OF THE TWO YEARS PRE-MEDICAL COLLEGE COURSE.

## SIXTY SEMESTER HOURS\* REQUIRED.

FRESHMAN.	Semester	Hours.
Chemistry (Inorganic) .....	12	
Biology .....	8	
Trigonometry and Analytic Geometry .....	8	
Evidences of Religion .....	1	
English .....	6	
German or French .....	6	
SOPHOMORE.		
Physics .....	14	
Chemistry (Analytic) .....	6	
Chemistry (Organic) .....	6	
Evidences of Religion .....	1	
Psychology .....	6	
Ethics .....	6	
Biology, Special Lectures .....	2	

\*A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recitation period per week, each period to be not less than fifty minutes net, at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period.

For further information regarding Pre-Medical work, apply to

THE DEAN,  
Georgetown University,  
Washington, D. C.



### **Credit for Work Done in Other Colleges.**

Students from accredited Medical Colleges will be admitted under the following conditions:

1. They must present evidence satisfactory to the Special Examiner that their entrance credentials are equal to the published requirements of this school.
2. They must present evidence of having passed a satisfactory examination in the branches for which they seek credit in some other reputable Medical School whose requirements equal our own.
3. The Dean shall verify the credentials from other Medical Schools, and shall not admit a student to advanced standing without communicating with the school from which the student wishes to withdraw, and receiving a certification of the applicant's standing in that school.
4. Reports on inquiry from other schools must show failing grades as well as final make-up marks.
5. Conditions contracted in other Medical Schools requiring additional work for their removal will require a similar procedure in this school.

### **Graduates in Medicine.**

1. A graduate from another Medical College may obtain a diploma from this school, provided he presents evidence of qualifications equal to the requirements for admission to this school.
2. He must submit the time and subject credits from the College from which he graduated, together with his diploma; he must attend all the courses of the fourth year, pass a satisfactory examination, and meet all other requirements for graduation.

### **Special Students.**

Persons not candidates for the degree of M.D. may be admitted without examinations as special students and may attend any of the courses upon giving satisfactory evidence that they are qualified to avail themselves of the instruction. Subjects completed to the satisfaction of the chairman of the department may be credited subsequently if the student enters upon a regular medical course within two years thereafter, and has complied with the published requirements for admission.

### Curriculum.

1. The students are graded in four classes, designated as the first, second, third and fourth, the last being the senior.

2. The complete curriculum of study comprises four courses extending through four years; each course is not less than 32 weeks in duration and comprises 35 hours per week of instruction.

3. Each course consists of didactic lectures, recitations, laboratory work and demonstrations, practical work in hospitals and dispensaries, with other practical manipulations and examinations.

4. No time credit will be allowed for the possession of a Bachelor Degree, but credit may be allowed for particular subjects when an applicant passes an examination therein satisfactory to the head of the respective department. Four years of attendance at a Medical College is required of all candidates for the degree of Doctor of Medicine, and not less than one of these must be spent at the Georgetown University School of Medicine.

5. The branches of study pursued and the arrangement of the courses according to years are shown in the table given on the next page.

## MEDICAL COURSE OF 4480 HOURS ARRANGED ACCORDING TO YEARS.\*

	Lectures, Recitations and Demonstrations	Laboratory Work	Clinic	Total Class Work
<b>FIRST YEAR:</b>				
Embryology .....	30	60	..	90
Histology .....	30	135	..	165
Anatomy .....	90	108	..	198
Chemistry and Toxicology.....	120	300	..	420
Physiology .....	70	80	..	150
Materia Medica.....	40	55	..	95
	380	738	..	1118
<b>SECOND YEAR:</b>				
Anatomy .....	90	288	..	378
Physiology .....	70	80	..	150
Bacteriology .....	30	120	..	150
Pharmacology .....	40	80	..	120
Pathology and Morbid Anatomy.....	60	210	..	270
Minor Surgery.....	12	..	20	32
Physical Diagnosis of normal subjects.....	..	20	..	20
	302	798	20	1120
<b>THIRD YEAR:</b>				
Clinical Pathology and Morbid Anatomy.....	..	75	..	75
Physical Diagnosis.....	35	..	80	115
Practice of Medicine.....	90	..	180	270
Pediatrics .....	20	..	60	80
Surgery .....	90	..	147	237
Obstetrics .....	60	..	35	95
Gynecology .....	30	..	30	60
Psychiatry and Neurology.....	30	..	30	60
Therapeutics .....	35	..	35	70
Hygiene and Dietetics.....	60	..	..	60
	450	75	597	1122
<b>FOURTH YEAR:</b>				
Practice of Medicine.....	60	60	212	272
Pediatrics .....	15	..	60	75
Surgery .....	90	..	148	238
Surgical Anatomy.....	..	40	..	40
Obstetrics .....	60	..	40	100
Gynecology .....	20	..	35	55
Psychiatry and Neurology.....	20	..	35	55
Orthopedic Surgery.....	15	..	30	45
Genito-Urinary Surgery.....	15	..	30	45
Dermatology and Syphilology.....	15	..	30	45
Ophthalmology .....	15	..	45	60
Oto-Laryngology .....	15	..	45	60
Medical Jurisprudence, Ethics and Economics.	30	..	..	30
	370	100	710	1120
<b>RECAPITULATION:</b>				
First year.....	380	738	..	1118
Second year.....	302	798	20	1120
Third year.....	450	75	597	1122
Fourth year.....	370	40	710	1120
Total.....	1502	1651	1327	4480

\*In addition to the above, Special Lectures are delivered by Dr. Col. William H. Arthur, U. S. A. Medical Corps, as follows: Sixteen Lectures on Military Surgery and 8 Lectures on Military Hygiene and Sanitation to Junior Students. Sixteen Lectures on Medical Service in Peace and War, Organization, Field Service, Regulations and Military Law to Senior Students.

## I. DEPARTMENT OF ANATOMY.

- WILLIAM O. OWEN, M.D.,  
*Professor of Anatomy. Chairman.*  
 \*PAUL B. JOHNSON, A.B., M.D.,\*  
*Associate Professor of Anatomy.*  
 PHILIP NEWTON, M.D.,\*  
*Assistant Professor of Anatomy.*  
 WILLIAM F. HEMLER, M.D.,  
*Professor of Histology and Embryology.*  
 EDWARD C. WILSON, M.D.,  
*Instructor in Anatomy.*  
 L. GLUSHAK, M.D.,  
*Instructor in Surgical Anatomy.*  
 MELVILLE B. FISCHER, M.D.,  
*Instructor in Anatomy.*  
 ALES HRDLICKA, M.D.,  
*Lecturer on Physical Anthropology.*  
 JOHN SHUGRUE, M.D.,  
*Instructor in Anatomy.*  
 REGINALD WALKER, M.D.,  
*Special Lecturer.*  
 GEORGE H. HEITMUELLER, A.B., M.D.,  
*Special Lecturer.*

## General Anatomy.

## FIRST YEAR.

*Osteology.*

This course consists of recitations and demonstrations on the articulated and disarticulated skeleton. Each student is furnished with the necessary bones for home study. October to January, three hours per week, ten weeks—30 hours. (Dr. Wilson.)

*Arthrology.*

This course consists of recitations with demonstrations on the living subject, models and charts. January and February, three hours per week, five weeks—15 hours. (Dr. Wilson.)

*Myology.*

In this course a systematic study is made of the skeletal muscles. The recitations are illustrated by demonstrations on the living subject, models and charts. Three hours per week, February to April, ten weeks—30 hours. (Dr. Wilson.)

*Angiology.*

These consist of recitations on the heart, arteries, veins and lymphatics, illustrated by models and charts. Three hours per week, April and May, five weeks—15 hours. (Dr. Wilson.)

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\*On leave of absence—War duty.

*Dissection.*

All dissection is done under constant supervision. First-year students begin dissecting in the second term. Nine hours per week, February to May, twelve weeks—108 hours. Total hours, first year, 198. (Prof. William O. Owen.)

## SECOND YEAR.

*Neurology.*

This course consists of lectures, recitations and frequent written examinations on the central and peripheral nervous systems. Instruction is illustrated by demonstrations on dissected specimens, models, and charts. October to December, three hours per week, ten weeks—30 hours. (Dr. Melville B. Fisher.)

*Splanchnology.*

This course consists of lectures and recitations on visceral anatomy. Instruction is illustrated by specially prepared lantern slides, plates and demonstrations on dissected specimens and models. January to March, three hours a week, ten weeks—30 hours. (Dr. John Shugrue.)

*Topographical and Applied Anatomy.*

In this course the student is required to learn anatomical relations and topography. Special stress is laid on the practical application of anatomy to the diagnosis and treatment of disease. This course consists of oral and written recitations, informal lectures, demonstrations on the living subject, on specially prepared dissections, and on models and charts. March to May, three hours per week, ten weeks—30 hours. (Prof. William O. Owen.)

*Dissection.*

Second-year students dissect during both terms, beginning October 1st. One-third of the body is dissected in the first year, and the remaining two-thirds during the second year, thus giving ample time for accurate work and careful investigation. All work is done under supervision, with frequent quizzes. At the end of each dissection a satisfactory examination must be passed by each student. October to May, twelve hours per week, twenty-four weeks—288 hours. (Professor Owen.) Total hours, second year, 378.



## FOURTH YEAR.

*Surgical Anatomy.*

This course includes a review on topographical and applied anatomy, with special stress on the application of anatomy to surgery. October to June—40 hours. (Dr. Glushak.)

**Histology.**

This course consists chiefly of laboratory work. The first hour twice a week is devoted to recitations, with explanatory talks illustrated by charts and blackboard drawings. The subject includes the study of the biology and structure of the cell, the elementary tissue in both fresh and prepared specimens and the organs in prepared specimens. Each student is required to make a complete set of histological preparations and to make drawings with descriptive notes of the microscopical appearances of each specimen. Thirty recitations, 135 hours laboratory work from October to February 20. Total, 165 hours. (Prof. Hemler).

**Embryology.**

The first hour, 2-3 P. M., is devoted to a lecture and recitation, the remaining hours, 3-5 P. M., to the study and preparation of specimens. The student is taught to prepare serial sections of the embryos studied. The course begins with a discussion of spermatogenesis and ovogenesis and then taking up the development after fertilization proceeds to the formation of the rudiment of the embryo, concluding with a consideration of organology. Thirty lectures and recitations. Sixty hours laboratory work. Total, 9 hours. (Prof. Hemler).

**II. DEPARTMENT OF PHYSIOLOGY.**

PROFESSOR FRANCIS A. TONDORF, Ph.D., S.J.,  
*Chairman.*

LEO BRISON NORRIS, M.D.,  
*Assistant Professor.*

Three hundred and twenty hours are assigned to the course in physiology, one hundred and forty being devoted to a systematic course of lectures covering the subject of animal physiology. Recitations are held at regular intervals. One hundred and eighty hours are allotted to laboratory work. These hours are evenly distributed over the first two years of the curriculum.

## FIRST YEAR.

The subjects covered in the first year are the physiology of the cell, secretion, digestion, nutrition, blood, circulation and respiration.

Laboratory Work.—Experiments on subjects of general character designed to parallel, as far as possible, the didactic work of this year. (Professor Tondorf and Assistant Professor Norris.)

## SECOND YEAR.

Lectures and recitations on the physiology of the muscle and nerve, the central nervous system, and the special senses. (Professor Tondorf and Assistant Professor Norris.)

Laboratory Work.—This consists of laboratory work on the physiology of the central nervous system. During the course the student is familiarized with the use of various instruments employed in physiological investigations and clinical medicine, such as the kymograph, spectroscope, ophthalmoscope, hemocytometer, hemoglobinometer, perimeter, etc. (Professor Tondorf.)

### III. DEPARTMENT OF CHEMISTRY AND TOXICOLOGY.

PROFESSOR JOHN D. HIRD, A.M., LL.B.,  
*Chairman.*

It is the aim of this department to give a practical course in chemistry and toxicology as related to the subject of medicine.

As a foundation for this course students on entering the school of medicine must have completed elementary and inorganic chemistry.

#### *Organic Chemistry.*

This course includes an examination of the more important hydrocarbons and their derivatives, supplemented by lectures upon the theoretical and practical methods of manufacture, their character and uses, especially as they are related to medicine.

Particular attention is given to the carbon, nitrogen and energy cycles in nature carbohydrates and amino acids, proteins, toxins, purin and nuclein bodies; urea, uric acid, creatinin, etc.

In the laboratory students will be taught practical methods of analysis, both gravimetric and volumetric, together with the

synthetical preparation of some of the more important organic compounds.

### *Sanitary Chemistry.*

The aim of this course, which is given in conjunction with the course of organic chemistry, is to give the student a knowledge of that branch of chemistry which is important for sanitary and public health officials and the general practitioner of medicine. It includes lectures and laboratory exercises on methods of differentiating between wholesome and unwholesome foods, spices, condiments, and beverages, and deals especially with milk, cheese, bread, meats, and vegetables. In addition, attention is given under the head of ventilation to the method of examining air in rooms, paying particular attention to velocity and composition of air currents. The analysis of water is also gone into, and in this connection the significance of its constituents will be considered from a sanitary standpoint.

Fifty lectures and 112 hours of laboratory work—total, 162 hours.

### *Toxicology.*

This course consists of lectures and recitations on the general subject of poisons and deals with their modes of action when introduced into the body, ultimate effects, antagonism and synergism, together with laboratory work on the separation and identification of the more important poisons.

Twenty-four lectures and recitation and 46 hours of laboratory work—total, 72 hours.

### *Physiological and Pathological Chemistry.*

This course includes lectures, recitations and laboratory work with special reference to the various chemical processes which take place in plants and animals, and which are more or less associated with the phenomena of life.

The chemistry of foods, their composition, assimilation, metabolism and excretion are studied in detail.

This includes fats, carbohydrates and proteins, enzymes and catalysis, salivary, gastric, pancreatic and intestinal digestion; secretions and excretions, the animal cell; the chemistry of the blood and other body fluids; the chemistry of the tissues and the general physiological and pathological conditions as evidenced by analysis of the urine, and of the gastric and intestinal contents.

This course includes also the more exact methods for the determination of creatinin, urea, ammonia, etc., in urine; the Kjeldahl determination of nitrogen and the general subject of cryoscopy in its relation to fluids.

Forty-six lectures and recitations and 140 hours of laboratory work.

Total hours in Chemistry, 420.

#### IV. DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY.

PROF. RALPH A. HAMILTON, M.D.,  
*Chairman.*

HOWARD F. STRINE, M.D.,  
*Acting Professor of Surgical Pathology.*

CHARLES A. PFENDER, M.D.,  
*Associate in Pathology.*

ERNEST L. MORGAN, A.B., M.D.,  
*Associate in Pathology.*

RALPH M. LE COMTE, M.D.,  
*Instructor in Pathology.*

LESTER NEUMAN, M.D.,  
*Associate in Pathology.*

MAURICE A. SELINGER, M.D.,  
*Instructor in Bacteriology and Pathology.*

The course in pathology extends over two years. The instruction consists of lectures, demonstrations, conferences and laboratory work, and embraces general and special pathology, including bacteriology and clinical pathology.

##### General Pathology.

##### SECOND YEAR.

The lectures and class recitations are brought in close relation with the laboratory work. During the first half year general consideration of diseases including etiology and immunity, are taken up. The second half year is devoted to the study of anatomic changes in disease, including degeneration, regeneration, inflammation, tumor formation, etc. Three hours a week for twenty weeks—60 hours.

##### *Pathological Histology.*

This course is arranged to illustrate the didactic work as far as possible, and consists of daily demonstrations, short laboratory talks, supplemented by the use of projection apparatus, microscopic work, examination of gross specimens from post-mortems, etc., and the microscopic study of typical pathological specimens from the college collection. The student is

familiarized with the essentials of laboratory technique, and is required to stain, mount and diagnose a complete series of pathologic tissues—210 hours.

### *Special Pathology.*

#### THIRD AND FOURTH YEARS.

This course consists of demonstrations in the technique of post-mortem examinations and the study of organs and tissues removed at autopsy. Class in sections—15 hours.

### *Clinical Pathology.*

The course in clinical pathology for third-year students contemplates the examination of blood, urine, feces, gastric contents, sputum, pathological exudates, etc., with special reference to clinical medicine and surgery. The great value of laboratory methods as aids in the diagnosis of disease will be emphasized. Two hours a week, thirty weeks—60 hours. Total hours in pathology—345. Post-mortem work will be given at the hospital in connection with the clinical work of senior students.

### **Bacteriology.**

#### SECOND YEAR.

This subject is taught by lectures and practical laboratory work. The students are familiarized with the preparation of media, the cultivation, isolation and identification of bacteria and general laboratory technique as applied to clinical medicine. The important pathogenic micro-organisms are studied culturally and morphologically and the principles of serum diagnosis, and serum and vaccine therapy are demonstrated. Nine hours a week, seventeen weeks—153 hours.

## **V. DEPARTMENT OF MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.**

WILFRED M. BARTON, M.D.,

*Professor of Therapeutics and Acting Chairman.*

CHARLES I. GRIFFITH, Phar.D., M.D.,

*Professor of Materia Medica and Pharmacology.*

LYMAN F. KEBLER, M.S., M.D.,

*Associate Professor of Materia Medica and Pharmacology.*

JOHN A. FOOTE, M.D.,

*Associate in Materia Medica and Lecturer on Anaesthesiology.*

JOHN M. LADD, M.D.,

*Instructor in Pharmacology.*

It is the object of this department to so train the student that he will be a practical, logical and scientific therapist.



*Materia Medica.*

## FIRST YEAR.

During this course the student is made familiar with the physical characteristics of drugs, learns their source (botanical or chemical), and the preparations, compatibilities, incompatibilities, doses and toxicology of the official remedies. He is also taught to compound the more important preparations. Forty lectures and recitations and 55 hours of laboratory work. Total, 95 hours. (Prof. Griffith.)

*Pharmacology.*

## SECOND YEAR.

In the second year pharmaco-dynamics are taught. Definite lessons are assigned upon which the students are questioned; explanations are freely given. Following the course, demonstrations of the action of all the important drugs are given and students are expected to repeat in the laboratory the most important experiments of pharmaco-dynamics. Forty hours recitations—eighty hours laboratory work. Total, 120 hours. (Profs. Griffith and Ladd.)

*Therapeutics.*

## THIRD YEAR.

In this course conferences are held in which problems are proposed: A pathological condition being given, the student is expected to apply his knowledge of pharmaco-dynamics in an attempt to alter or remove the diseased processes by suitable remedies and therapeutic measures—70 hours. (Professor Barton.)

## FOURTH YEAR.

In connection with bedside instruction at the University and the City Hospitals the Senior Year is devoted to practical work and the use of therapeutic agents other than drugs, including massage, electro- and hydro-therapy and sero- and organo-therapy—60 hours. (Prof. Barton.)

The lectures on pure and fraudulent remedies are delivered by Professor Kebler.

## VI. DEPARTMENT OF MEDICINE AND MEDICAL SPECIALTIES.

PROF. SAMUEL S. ADAMS, A.M., M.D.,

*Chairman.*

*Professor of the Theory and Practice of Medicine and Diseases of  
Children.*

EDWIN B. BEHREND, A.B., M.D.,

*Associate Professor of Medicine.*

WILFRED M. BARTON, M.D.,

*Associate Professor of Medicine.*

THOMAS S. LEE, M.D.,

*Clinical Professor of Medicine.*

CHARLES C. MARBURY, M.D.,

*Clinical Professor of Medicine.*

ROY D. ADAMS, M.D.,

*Clinical Professor of Medicine.*

JOHN A. O'DONOGHUE, A.M., M.D.,

*Associate Professor of Clinical Medicine and Director of the Outdoor  
Service.*

JOHN A. FOOTE, M.D.,

*Associate Professor of Clinical Medicine.*

\*JOHN J. MADIGAN, M.D.,

*Instructor in Clinical Medicine.*

JAMES M. MOSHER, M.D.,

*Instructor in Clinical Medicine.*

HARRY A. ONG, M.D.,

*Assistant Professor in Medicine.*

R. M. LE COMTE, M.D.,

*Instructor in Medicine.*

CHARLES A. PFENDER, M.D.,

*Instructor in Roentgenology.*

RICHARD M. SUTTON, M.D.,

*Instructor in Clinical Medicine.*

CLARENCE M. DOLLMAN, M.D.,

*Associate Professor of Clinical Medicine.*

JOSEPH J. MCCARTHY, M.D.,

*Assistant Professor of Clinical Medicine.*

CLAUDE C. CAYLOR, M.D.,

*Clinical Instructor Infectious Diseases.*

FRANK E. DUEHRING, M.D.,

*Instructor in Clinical Medicine.*

GEORGE N. ACKER, A.B., M.D.,

*Instructor in Medicine.*

HARRY A. SPIGEL, M.D.,

*Instructor in Medicine.*

E. R. STITT, A.B., Ph. D., M.D.,

*Professor of Tropical Medicine.*

\*On leave of absence.

WILLIAM GERRY MORGAN, M.D.,  
*Professor of Gastro-Enterology.*

HENRY HAYES, M.D.,\*  
*Instructor in Gastro-Enterology.*

GEORGE M. KOBER, M.D., LL.D.,  
*Professor of Hygiene and Dietetics.*

\*FRANCIS M. MUNSON, M.D.,  
*Lecturer on Hygiene.*

HARRY S. BERNTON, M.D.,  
*Lecturer on Hygiene, Prevention of Communicable Diseases.*

WILLIAM C. WOODWARD, M.D., LL.M.,  
*Professor of Medical Jurisprudence.*

REV. ALOYSIUS BROSNAN, S.J.,  
*Lecturer on General and Medical Ethics.*

The work in the Department of Medicine is carried on in the lecture rooms, the wards, dispensary and laboratories, chiefly at the University Hospital, supplemented by general clinics and ward class instruction in the City Hospital and the wards for contagious diseases. Every effort is made to give the student a clear conception of the methods of diagnosis and management of the various diseased conditions usually considered as belonging to the provinces of internal medicine.

### Physical Diagnosis.

JOHN D. THOMAS, A.B., M.D.,  
*Professor of Physical Diagnosis.*

W. D. TEWKSBURY, M.D.,  
*Associate Professor of Physical Diagnosis.*

FREDERICK SOHON, M.D.,  
*Associate Professor of Physical Diagnosis.*

MELVILLE B. FISCHER, M.D.,  
*Instructor in Physical Diagnosis.*

HARRY A. SPIGEL, M.D.,  
*Instructor in Normal Physical Diagnosis.*

This course begins in the second year when, in connection with applied physiology, the student is made familiar with inspection, palpation, percussion and auscultation of the healthy subject. It gives him a foundation of the methods employed in physical exploration of the body and acquaints him with normal conditions, so that he can distinguish abnormal conditions when they are brought before him.

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\*On leave of absence—War duty.

The course is entirely practical; each student is required to repeatedly inspect, palpate, percuss and auscultate normal subjects, and demonstrate his ability with all the necessary instruments of precision, such as the stethoscope, sphygmograph, sphygmomanometer, etc. Class is divided into sections (20 hours for each section).

During the junior year in addition to didactic lectures and recitations there are Section Clinics at the University and Municipal Hospitals and Dispensaries, where each student makes examinations under proper supervision—35 hours lectures and recitations, 80 hours clinical work—total, 115 hours.

### THIRD YEAR.

#### Medicine.

The Infectious Diseases. (Profs. Behrend and O'Donoghue.) Tuberculosis. (Prof. Tewksbury.)

Diseases of the Respiratory System. (Prof. Thomas.)

Diseases of the Circulatory System and of the Kidneys. (Prof. Lee.)

Diseases due to physical agents. The intoxications. (Dr. Spigel.)

Clinical conferences, ward class instruction and Dispensary Clinics by Professors Adams, Behrend, Lee, Marbury, Sohon, Foote and Doctors Madigan, Ong, and Sutton—90 lectures and recitations, 180 hours clinical work. Total, 270 hours.

### FOURTH YEAR.

Diseases of the blood. (Dr. Acker.)

Diseases of metabolism. (Dr. Ong.)

Diseases of the Digestive System. (Prof. Morgan.)

Diseases of the Ductless Glands. (Dr. Ong.)

#### *Tropical Medicine.*

(Professor E. R. Stitt, M.D.)

In this course special attention is given to those diseases which are as important for the Practitioner in the Southern States as for the Medical man residing in tropical countries.

With this in view such diseases as bacillary and amoebic dysenteries, hookworm disease, malaria, yellow fever, dengue and pellagra are considered in detail. Cholera and plague, on account of their epidemiological importance, are likewise taken

up in a thorough manner. An effort is made to give the student a comprehensive idea of the special features of diagnosis and treatment of such diseases as beri-beri, Malta fever, trypanosomiasis, sprue, kala-azar, leprosy and various tropical skin affections. The lectures are illustrated by lantern slides and supplemented by weekly quizzes.

In addition to the foregoing lectures to Senior students, there will be clinical conferences, ward class instruction and Dispensary clinics by Professors Adams, Behrend, Barton, Leech, Johnson, Marbury, O'Donoghue, Foote and Doctors Ong, Madigan, Caylor and Sutton.

Sixty lectures and recitations, 212 hours clinical work. Total in fourth year, 272 hours.

### *Medical Specialties.*

#### **Pediatrics.**

JOSEPH S. WALL, M.D.,  
*Professor.*

JAMES M. MOSER, M.D.,  
*Associate.*

WILLIAM F. O'DONNELL, M.D.,  
*Instructor.*

The course of study in diseases of infancy and childhood extends over a period of two years, and consists mainly of clinical teaching by demonstration of bed-side cases, section work in the out-patient department and by weekly class conferences with demonstrations by senior students who have had an opportunity to study previously the individual cases presented.

The material at the University and the Children's Hospital affords the means for demonstration of all of the common types of diseases of early life, and the students are enabled in their two years of study to acquire an intimate knowledge of those pathological conditions which form so large a part of their actual work in internal medicine after entering practice.

Third year—20 lectures and recitations; 60 hours of clinical work.

Fourth year—15 lectures and recitations; 60 hours of clinical work. Total, 155 hours.



## Psychiatry and Neurology.

WILLIAM A. WHITE, M.D.,  
*Professor of Psychiatry and Neurology.*

D. PERCY HICKLING, M.D.,  
*Associate Professor of Psychiatry and Neurology.*

JOHN J. MADIGAN, M.D.,  
*Instructor.*

JOHN E. LIND, M.D.,  
*Instructor.*

JOHN M. LADD, M.D.,  
*Instructor.*

This course consists of didactic lectures and recitations, clinical lectures and ward class instruction at the City Hospital, which affords excellent opportunities for the study of chronic nervous diseases, and the acute forms of mental disorder. During the second semester clinics are also given at the Government Hospital for the Insane, which accommodates about 3,000 patients. Students have an opportunity to visit the wards of the Hospital, and each lecture is illustrated by cases, giving in great variety, all the forms of insanity and diseases of the nervous system which are usually seen in the practice of the general practitioner in medicine.

Professor Hickling also gives instruction at the University Hospital in diseases of the general nervous system which are commonly met with in practice, special attention being given to their diagnosis and treatment.

Third Year—30 lectures and recitations; 30 hours clinical work.

Fourth Year—20 lectures and recitations; 35 hours clinical work. Total, 115 hours.

## Electro-Therapeutics.

JOHN J. MADIGAN, M.D.,  
*Lecturer.*

CHARLES A. PFENDER, M.D.,  
*Lecturer.*

This course is given in the fourth year and includes a brief outline of Electro-Physics and Electro-Physiology, with practical illustrations of the use of the galvanic, faradic and static currents and X-Ray methods, and a discussion of the

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\*On leave of absence—War duty.

medical and surgical conditions in which this form of treatment may be used. The lectures are amply illustrated with electrical appliances and practical work—30 hours.

### **Roentgenology.**

CHARLES A. PFENDER, M.D.,  
*Instructor.*

This course is given during the fourth year and includes an outline of the development of Roentgenology, a description of modern apparatus and its practical application. Demonstrations in the use of Roentgen rays in the diagnosis of pathological conditions of the head and teeth, diseases and fractures of bones, diseases of the chest, gastro-intestinal tract and genito-urinary system by fluoroscopy and radiography. Brief outline of deep Roentgen therapy. Numerous illustrations by plates and stereopticon slides—15 hours.

### **Gastro-Enterology.**

WM. GERRY MORGAN, A.B., M.D.,  
*Professor of Gastro-Enterology.*

WM. EARLE CLARK, M.D.,  
*Assistant Professor of Gastro-Enterology.*

HENRY HAYES, M.D.,  
*Assistant Professor of Gastro-Enterology.*

This course is given during the fourth year and consists of didactic lectures covering all the special diseases of the stomach and intestines, and clinical instruction in the University Hospital and in the dispensary specially devoted to Gastro-Enterology and completely equipped for that purpose. This course is also open to graduate students.

### **Hygiene and Dietetics.**

GEORGE M. KOBER, M.D., LL.D.,  
*Professor.*

FRANCIS M. MUNSON, M.D.\*  
*Lecturer on Hygiene.*

HARRY S. BERNTON, A.B., M.D.,  
*Lecturer on Etiology and Prevention of Communicable Diseases.*

This course on hygiene and dietetics includes lectures and recitations on sunlight, air, climate and meteorology; water, ice, artificial carbonated waters, and soil in relation to health and disease; food, beverages, and condiments, morbid and infected food products; dietetics in health and disease; the

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\*On leave of absence.

skin, bath and clothing; exercise, rest, sleep, beds, and bedding; private and public habitations, including drainage, ventilation, warming, and lighting, the hygiene of communities and of occupations, with practical demonstrations of sanitary appliances at the Museum of Hygiene. Inspections are also made of the Filtration Plant and the City Sewage Disposal System—60 hours.

### **State Medicine.**

PROF. WILLIAM C. WOODWARD, M.D., LL.M.,

The course of State Medicine consists of lectures and of such demonstrations as may be practicable upon the relation of the medical practitioner to Government, and of the application of medical science to the purpose of the Government for the protection of public health, and for the determination of such medical problems as come before courts of law—30 hours.

### **Medical Ethics.**

PROF. A. BROSANAN, S.J.,

A course of lectures given for the purpose of acquainting the young medical practitioner with the principles of ethics upon which medical practice is founded. In the course especially those topics will be dwelt upon which are often overlooked by the recent graduate in his attempt to build up a successful practice.

## **VII. DEPARTMENT OF SURGERY AND SURGICAL SPECIALTIES.**

GEORGE TULLY VAUGHAN, M.D., LL.D.,  
*Professor of Principles and Practice of Surgery.*  
*Chairman.*

JAMES F. MITCHELL, A.B., M.D.,  
*Associate Professor of Principles and Practice of Surgery.*

HOWARD F. STRINE, M.D.,  
*Associate Professor of Principles and Practice of Surgery.*

WILLIAM C. GWYNN, M.D.,  
*Clinical Professor of Surgery.*

WILLIAM P. REEVES, M.D.,  
*Clinical Professor of Surgery.*

JOHN CONSTAS, M.D.,  
*Assistant Professor of Operative Surgery.*  
*Associate Clinical Professor of Surgery.*

JAMES A. GANNON, M.D.,  
*Instructor in Surgery and Associate Professor of Clinical Surgery.*

L. GLUSHAK, M.D.,  
*Instructor in Operative Surgery.*

MURRAY RUSSELL, M.D.,  
*Instructor in Surgery.*

WILLIAM R. MOULDEN, M.D.,  
*Instructor in Surgery.*

CHARLES A. PFENDER, M.D.,  
*Instructor in Roentgenology.*

### General Surgery.

The course in surgery extends over two and one-half years. Instruction is given by didactic lectures, recitations and demonstrations at clinics, held at various hospitals and dispensaries, which afford material in abundance.

#### SECOND YEAR.

##### *Minor Surgery.*

Students are instructed in the use and application of bandages, fracture dressings, and other surgical apparatus. The use of the principal surgical instruments is also demonstrated on the living subject or on the cadaver. (Dr. Russell.)

#### THIRD YEAR.

##### *Surgical Pathology.*

This course embraces a study of surgical pathology and diagnosis according to modern practical methods. Instruction is given during the session by demonstrations, lectures, recitations and laboratory work. The unaided eye appearances of the various neoplasms, malignant and benign, and the gross pathologic picture of the infective processes of tissues are studied from fresh specimens and the museum collection. The histories and microscopic sections accompanying these specimens are also studied in this work—30 hours. (Professor Strine.)

##### *Principles of Surgery.*

Lectures and recitations on this subject are given twice a week, including fractures and dislocations—60 hours. (Professor Strine.)

##### General Clinics.

Clinical Conferences—Word Class Instruction and Dispensary Clinics—147 hours. (Professors Strine, Gwynn, Gannon, Constas and Dispensary Staff.)

## FOURTH YEAR.

*Regional and Systemdelic Surgery.*

This includes surgery of the blood vessels, of the head and spine, and of the respiratory and digestive tracts—90 lectures and recitations. (Professor Vaughan.)

General Clinics—Clinical conferences, Ward Class Instruction and Dispensary Clinics—148 hours. (Professors Vaughan, Mitchell, Strine, Gwynn, Conostas, Gannon, Glushak.)

*Operative Surgery on the Cadaver.*

This course consists in having the students of the fourth year perform ligation of arteries, the most important amputations and resection of joints and the common operations of general practice. (Associate Professors Conostas and Glushak.)

**Surgical Specialties.***Genito-Urinary Surgery.*

LOUIS C. LEHR, A.B., M.D.,  
*Professor.*

JOHN CONSTAS,  
*Associate.*

LEO P. MILLIGAN, M.D.,  
*Instructor.*

RALPH M. LE COMTE, M.D.,  
*Instructor.*

NELSON GAPEN, M.D.,  
*Instructor.*

This course consists of sixteen lectures and recitations and 30 hours of practical work in the hospital and dispensary clinics. Opportunity will be afforded those desiring special instruction in cystoscopy and the use of the urethroscope—45 hours.

*Orthopedic Surgery.*

WILLIAM G. ERVING, A.B., M.D.,  
*Professor.*

CURTIS LEE HALL, M.D.,  
*Instructor.*

This course consists of 15 lectures and recitations and 30 hours of practical work in the Children's Hospital and the University Hospital and Dispensary—45 hours.



### Gynecology.

J. THOMAS KELLY, JR., M.D.,

*Professor of Gynecology.*

ROBERT Y. SULLIVAN, M.D.,

*Associate Professor in Gynecology.*

JAMES A. CAHILL, M.D.,

*Instructor in Gynecology.*

Gynecology will be taught in didactic and practical lessons in the lecture room and in the University Hospital and various hospitals where clinical material is under the control of the Faculty.

#### THIRD YEAR.

Anatomy and physiology of the female pelvic organs. The development of these organs, their diseases, malformations and displacements will be carefully studied. Thirty hours lectures and recitations and 30 hours clinical work. Total, 60 hours.

#### FOURTH YEAR.

Lectures will be given upon all subjects not embraced in the course providing for the third year. The disease of the generative tract, including the degenerative or malignant conditions of the pelvic organs, will receive attention. Especial attention will be given to clinical studies, history taking, etc., and work in the hospital wards. Thirty hours devoted to lectures and recitations and 35 hours of clinical work. Total, 65 hours.

### Ophthalmology.

WILLIAM H. WILMER, M.D., LL.D.,

*Professor of Ophthalmology.*

LOUIS L. GREEN, M.D.,

*Associate Professor of Ophthalmology.*

S. B. MUNCASTER, M.D.,

*Associate Professor of Ophthalmology.*

CHARLES M. HAMMET, M.D.,

*Associate Professor of Ophthalmology.*

JOHN W. BURKE, M.D.,

*Associate Professor of Ophthalmology.*

This course begins with lectures on the anatomy of the eye, illustrated by models, charts, and specimens under the microscope, followed by an explanation of the fundamental principles of physiological optics and the proper methods of examining the eye. The lectures are supplemented by quizzes and

reviews. The lectures on the diseases of the eye are entirely practical, illustrative cases being taken from the extensive services at the Episcopal Eye Hospital, Central Dispensary and at the University Hospital. The class is divided into small sections in order that the clinical teaching shall be as nearly personal as possible.

An operative course is given upon pigs' eyes. Each student has the opportunity to perform the principal operations and familiarize himself with the technique. More than two thousand cases of eye diseases are treated annually at the Episcopal Hospital alone. Every important operation on the eye is performed in the presence of each section.

Fifteen lectures and recitations—48 hours clinical work. Total, 65 hours.

### Oto-Laryngology.

WALTER A. WELLS, M.D.,  
*Professor.*

REGINALD R. WALKER, M.D.,  
*Associate Professor.*

JAMES A. FLYNN, M.D.,  
*Associate.*

The course in laryngology and otology, chiefly clinical, is conducted with a view to familiarizing the student with the various forms of nose, throat and ear affections met with in actual practice, and instructing him in modern methods of diagnosing and treating them. After a preliminary discussion of the history of these specialties, followed by a thorough demonstration by means of charts and specimens of the anatomy and physiology of these organs, the subject is taught by actual observation and study of the disease by contact with the patients.

The class is divided into sections, so that each student may be personally taught by the use of the instruments and drilled in the methods of both subjective and objective examination of the patients. In the course of the year ample opportunity is afforded of witnessing major and minor operations which are to be performed in connection with these specialties. Fifteen lectures and recitations and 45 hours of clinical work.

### Dermatology and Syphilology.

HENRY H. HAZEN, A.B., M.D.,  
*Professor.*

FRANK J. EICHENLAUB, M.D.,  
*Instructor.*

Realizing that a knowledge of this important branch can be gained only by actual demonstration of the lesions, this subject is chiefly taught by clinical lectures at the Georgetown University Hospital and Dispensary, which furnishes material for the illustration of all of the more common diseases of the skin. Fifteen lectures and recitations and 30 hours of clinical work.

## VIII. DEPARTMENT OF OBSTETRICS.

JOHN F. MORAN, A.B., M.D.,  
*Chairman.*

THOMAS F. LOWE, A.B., M.D.,  
*Associate Professor of Obstetrics.*

PRENTISS WILLSON, M.D.,  
*Associate Professor of Obstetrics.*

A. Y. P. GARNETT, M.D.,  
*Associate Professor of Obstetrics.*

J. LEWIS RIGGLES, M.D.,  
*Associate Clinical Professor of Obstetrics.*

LEON A. MARTEL, M.D.,  
*Instructor in Obstetrics.*

WILLIAM J. STANTON, M.D.,  
*Instructor in Obstetrics.*

WILLIAM F. O'DONNELL, M.D.,  
*Instructor in Obstetrics.*

The course is graded and consists of classified lectures and recitations, illustrated by charts and plates, essays upon assigned subjects, demonstrations and of operations performed upon the manikin.

### THIRD YEAR.

The external and internal anatomy of the female generative organs. The normal female pelvis—its planes, axes and internal and external diameters. The physiology of menstruation and conception.

Embryology—The anatomy and physiology of the fetus. The diameters of the fetal head and attitude of the fetus.

The changes in the maternal system as the result of pregnancy. The symptoms and diagnosis of pregnancy. The hygiene and medical supervision of pregnancy.

The physiology of normal labor. The mechanism of occipito—anterior positions. The conduct of normal labor.

The normal puerperium—its physiology and clinical course. The care of the mother and infant. Sixty hours of lectures and recitations; 35 hours of practical work. Total, 95 hours.

#### FOURTH YEAR.

The pathology of pregnancy. The physiology and pathology of labor and the puerperium. The pelvic deformities. Obstetric operations. Sixty hours lectures and recitations; 40 hours practical work.

An opportunity is given to each student to perform the various obstetric operations, such as the application of forceps, version, etc., supplemented by an operative course on the Budin-Pinard manikin.

Every effort is made to instruct the senior students by clinical teaching. The wards of the University Hospital afford material for ante-partum and post-partum instruction. Members of the teaching staff also have opportunities in other institutions to teach pelvimetry, auscultation and abdominal palpation for the diagnosis of presentations and positions.

Sections of five senior students alternate weekly in residing in the Maternity Hospital of the University. They witness all confinements of the ward patients, personally attend the cases of normal labor and accompany the Assistant Obstetrician on duty when he makes daily rounds in the wards.

In the outdoor maternity service Senior Students are appointed to deliver and look after these patients under the supervision of an instructor, and render case histories of all patients thus attended.

## Clinical Instructions and Advantages

### GEORGETOWN UNIVERSITY HOSPITAL.

*Corner of Thirty-fifth and N Streets, N. W.*

The Hospital and Dispensary are located in close proximity to the College grounds and accessible by three of the principal electric car lines in the city. This institution, with a capacity of 267 beds, is in every sense a modern University hospital, wholly under the control of the School of Medicine, and affords ample and excellent facilities for illustrating by clinical teaching and ward classes the didactic instruction given in the various practical branches of the school. Two years ago a Maternity Service for 70 patients was inaugurated, and also a department for mental and nervous diseases, with a complete equipment for hydro and electro-therapeutics. Owing to the favorable location of the Hospital, the Outdoor Service and Emergency Department enjoy an unusual field of activity, a matter of great importance to students, as they receive special training in the effective management of emergency cases. Clinics and Ward Classes are conducted by the following Professors of this school and by members of the Hospital and Dispensary staff.

### HOSPITAL AND DISPENSARY STAFF.

#### Department of Medicine.

- PROF. SAMUEL S. ADAMS, M.D., *Chief*.  
JOHN D. THOMAS, M.D., *Associate*.  
EDWIN D. BEHREND, M.D., *Associate*.  
WILFRED M. BARTON, M.D., *Associate*.  
WILLIAM GERRY MORGAN, M.D., *Associate*.  
JOSEPH S. WALL, M.D., *Associate*.  
JOHN A. O'DONOGHUE, M.D., *Associate and Director of  
Outdoor Service*.  
ROY D. ADAMS, M.D., *Assistant*.  
RICHARD M. SUTTON, M.D., *Assistant*.  
HARRY A. ONG, M.D., *Assistant*.  
JAMES M. MOSER, M.D., *Assistant*.  
FRANK E. DUEHRING, M.D., *Assistant*.  
\*JOHN J. MADIGAN, M.D., *Assistant*.  
EDWIN R. WIESE, M.D., *Assistant*.



### Department of Surgery.

PROF. GEORGE T. VAUGHAN, M.D., LL.D., *Chief*.  
JAMES F. MITCHELL, M.D., *Associate*.  
WILLIAM C. GWYNN, M.D., *Associate*.  
HOWARD F. STRINE, M.D., *Associate*.  
JAMES A. GANNON, M.D., *Associate*.  
LOUIS C. LEHR, M.D., *Genito-Urinary Surgery*.  
JOHN CONSTAS, M.D., *Associate*.  
WILLIAM G. ERVING, M.D., *Orthopedic Surgery*.  
CURTIS LEE HALL, M.D., *Associate*.  
L. GLUSHAK, M.D., *Assistant*.  
FRANCIS M. MUNSON, M.D., *Assistant*.  
MURRAY RUSSELL, M.D., *Assistant*.  
WILLIAM R. MOULDON, M.D., *Assistant*.  
LEO P. MILLIGAN, M.D., *Assistant*.  
RALPH M. LE COMTE, M.D., *Assistant*.  
NELSON GAPEN, M.D., *Assistant*.

### Department of Gynecology and Abdominal Surgery.

J. THOMAS KELLY, JR., M.D., *Chief*.  
ROBERT Y. SULLIVAN, M.D., *Associate*.  
JAMES A. CAHILL, M.D., *Assistant*.

### Department of Obstetrics.

JOHN F. MORAN, A.B., M.D., *Chief*.  
THOMAS F. LOWE, M.D., *Associate*.  
PRENTISS WILLSON, M.D., *Associate*.  
LEON A. MARTEL, M.D., *Assistant*.  
WILLIAM J. STANTON, M.D., *Assistant*.  
A. Y. P. GARNETT, M.D., *Assistant*.  
CASIMER LEIBELL, M.D., *Assistant*.

### Department of Ophthalmology.

WILLIAM H. WILMER, M.D., *Chief*.  
CHARLES M. HAMMET, M.D., *Associate*.  
S. B. MUNCASTER, M.D., *Associate*.

### Department of Oto-Laryngology.

PROF. WALTER A. WELLS, M.D., *Chief*.  
REGINALD R. WALKER, M.D., *Associate*.  
JAMES A. FLYNN, M.D., *Associate*.

### Department of Dermatology and Syphilology.

PROF. HENRY H. HAZEN, M.D., *Chief*.

### Department of Pathology.

PROF. RALPH A. HAMILTON, M.D., *Chief*.  
LESTER NEUMAN, M.D., *Associate*.

**Department of Neurology and Electro-Therapeutics.**D. PERCY HICKLING, M.D., *Chief.*\*J. J. MADIGAN, M.D., *Assistant.*CHARLES A. PFENDER, M.D., *Associate. In charge of X-Ray Laboratory.***Medical Director.**WILLIAM H. ARTHUR, M.D., *Colonel, Medical Corps, U. S. Army (Retired).***Resident Physicians.**

CLARENCE M. RANSOM, M.D.

JOHN J. SHUGRUE, M.D.

CHARLES H. McENERNEY, M.D.

**Sister Superior.**

SISTER MARY BERTRAND, O. S. F.

**Children's Hospital.***W Street, between Twelfth and Thirteenth Streets, N. W.*

Students may here observe the diseases, injuries, and deformities incident to infancy and childhood, together with the treatment appropriate therefor. Every facility will be given to observe and comprehend thoroughly the cases admitted to its wards. The out-patient department or dispensary is open every week day from 2.30 to 4.30 P. M. It is divided into medical and surgical services, and a service for diseases of the eye and ear. All these are free of access for medical students.

Drs. Adams, Wall, Dunlop, Moser and Glushak, who are on the Staff, will give clinical instruction at this hospital.

**Episcopal Eye, Ear and Throat Hospital.**

This Hospital affords unusual facilities for clinical teaching in the specialties for which it is especially equipped.

Ophthalmological classes by Drs. Wilmer, Burke and Greene.

Laryngological and Otological by Drs. Wells, Miller and Walker.

**Washington Asylum and Tuberculosis Hospital.**

These two hospitals are owned and controlled by the municipality and afford an abundance of clinical material. Clinical teaching in sections is conducted at the Tuberculosis Hospital by Profs. Thomas and Tewksbury.

The Washington Asylum or City Hospital offers an excellent opportunity for the study of acute and chronic diseases and injuries. Professors White and Hickling utilize the material in the Psychopathic wards of the Institution and Professors Barton, Lee, Gannon, Reeves and Doctors, Dollman and

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\*On leave of absence—War duty.

Lind conduct Ward Class teaching in medicine and surgery. Post-mortems are made in connection with this work. The students spend all of the time on Saturdays in the wards and clinics of the Hospital.

### **Columbia Hospital for Women and Lying-In Asylum.**

This Hospital offers excellent opportunities for gynecological and obstetrical demonstrations and section work, under the supervision of Professors Moran, Stone and Kelley.

### **Providence and Garfield Memorial Hospitals.**

Section Clinics in Infectious Diseases are held in these Hospitals by Professors Johnson, Leech and Foote and Dr. Caylor.

### **Examinations.**

1. Professors and Instructors render monthly reports to the Dean upon the attendance and progress of each student in every course, and at the close of the first semester an examination is held to test the proficiency and advancement of every student.

2. At the conclusion of the instruction in each department there is held annually a written examination on all the subjects of that department. Each written examination may be supplemented by a practical or oral examination, should the Professor or Instructor in charge of that branch deem it desirable. Before the examination, the Instructors in the subordinate branches submit to the Professors in charge the questions that they desire to be included.

3. A student who has less than 80 per cent. credit for attendance in the course is not eligible for examination, and no student shall be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.

4. The standing of a student in any branch will be determined by combining the record of his recitations and examinations, both written and oral, and his laboratory and clinical work.

5. The instructor in each subordinate branch shall report within five days after examination is held, the standing in said branch to the professor of the principal chair to which that branch is attached, and this rating shall be used in estimating the standing in the principal branch. The examination marks

shall be upon a scale of 100 as a maximum mark, and each student must attain a grade of 75 in all of his studies.

6. All reports on final examination shall be rendered by the head of the Department within 10 days after such examinations are held.

### Conditions and Failures.

1. A grade between 60 and 75 per cent. in any subject constitutes a condition, and three conditions constitute a failure. A grade below 60 per cent. in any subject also constitutes a failure and the student will be required to repeat the course.

2. Candidates for graduation shall be informed of their success or failure by the Dean on the day following the report to the Faculty of their rating, and all other students within 15 days after their examination.

### Rules Governing Removal of Conditions and Supplemental Examinations.

1. A student who fails in a course, but with a final grade in that course not below 60 per cent., is entitled (after payment of the supplementary examination fee) to a supplementary examination at the *next* supplementary examination (see 3). This applies also to students who were absent from the regular examination.

2. A student who fails in a course with a final grade below 60 per cent. must repeat all or part of the work of that course before being eligible to an examination. Such repeating may be done (a) in an approved summer course, (b) under an approved tutor, or (c) with the regular course given to the next class, according as the Executive Faculty may direct.

3. The supplementary examinations for the first, second and third years will be given between *September 30th and October 10th*. Students must inform themselves of the exact dates by application to the Registrar.

4. A student, entitled to enter a supplementary examination, who fails to appear at the time scheduled for the examination, must repeat the course before being eligible to examination, except as provided under 5.

5. Under very exceptional circumstances, such as serious personal illness, a special examination may be allowed by vote of the Executive Faculty. This entails a fee in excess of that for supplementary examinations.



6. A subject once failed and removed by subsequent examination shall entitle a passing grade only.

7. A student who fails to remove a condition at a supplementary examination must repeat the course before being entitled to another examination.

### **Promotion and Classification.**

The regular promotion from one class to another will be made by the Executive Faculty after the May examinations, and the student shall be informed in writing of his standing within 15 days after such an examination. It being impossible for the student to carry on the succeeding year's work with conditions of the preceding year, every effort must be made by the student to remove the conditions in the manner already prescribed.

A student will not be permitted to enter a higher class until he has shown his fitness to carry the work of that class. In deciding the question of fitness the Faculty will be guided by the following rules:

1. By October 10th the student must have passed in all subjects of the class one year below that which he wishes to enter.

2. A student who is not promoted may be permitted to take any subject of the next higher class for which he is sufficiently prepared, provided it does not interfere with the scheduled work on any course in which he is conditioned.

3. Students shall not be permitted to graduate unless their standing is satisfactory in all of their studies. Upon failure in one subject of the fourth year a student may, with the approval of the Executive Faculty, be allowed the privilege of a re-examination in the Fall, and if he fails again must repeat the course.

### **Requirements for Graduation.**

The following are the requirements necessary for graduation:

1. The candidate must be of good moral character and at least twenty-one years of age; he must have studied medicine not less than four years, during which he must have attended four courses of instruction delivered in some recognized medical school, as already provided for, the last of which shall have been delivered in this institution.

2. The diplomas shall be signed by the Executive Faculty.



3. The graduation exercises shall take place within a month after the final examinations.

4. They shall be presided over by the President of the University and all details shall be arranged by a committee appointed for the purpose by the Executive Faculty.

### Fees.

Matriculation fee (payable but once).....	\$ 5.00
Tuition each year.....	200.00
Graduation fee .....	10.00
Breakage deposit* .....	10.00
Supplementary examination, each.....	5.00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to pay all charges for injury to microscopes, apparatus and other college property.

2. For special students:

Didactic lectures for each of the Chairs.....	\$25.00
Dissection .....	30.00
Didactic and laboratory course in normal histology, physiology, pathology and pathological histology and bacteriology, each.....	30.00
Practical Chemistry, including chemicals, per course .....	30.00
Operative surgery on the cadaver.....	30.00

3. Payment of not less than one-fourth of the fees is required at the commencement of the session, the balance by January 1st, ensuing.

4. A student repeating the course for any reason will be charged full fees for that course, unless otherwise directed by the Executive Faculty.

### Scholarships.

The following scholarships are established, each to cover the entire course of four years, and valid only during satisfactory conduct and progress.

One awarded by the University Alumni Association.

One paid for by the Carroll Morgan Endowment Fund.

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\*All breakage and loss of books not directly traceable to the individual student is assessed *pro rata*, and any sum remaining to the credit of the student will be returned at the expiration of the course.

One awarded by competitive examination to a graduate of the Washington High Schools for the Department of Science and Arts and Medicine of the value of \$150.00 per annum.

The President of the University has *ex-officio* the power to appoint to scholarships graduates of science and arts and others deemed worthy of such favor, the value of such scholarships being left to his discretion, but the number in no case to exceed 5 per cent. of the total number of matriculates.

Checks should be made payable to the School of Medicine, Georgetown University.

For further information apply in person or by letter to

GEORGE M. KOBER, M.D., *Dean*,  
920 H Street N. W., Washington, D. C.

Telephone Main 632.

H. B. MERRITT, *Curator*.

# Matriculates Medical School, 1919-1920

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Blanco, Thoma F.,	Northumberland Apts.,	San Juan, Porto Rico.
Burke, William F.,	1468 R. I. Ave.,	Philadelphia, Pa.,
Butrym, Stanley B.,	1234 10th St., N. W.,	St. Catherine, Canada.
Calderon, J. M.,	911 N. Y. Ave.,	
Cardello, Benj. A.,	1022 9th St., N. W.,	Asbury Park, N. J.
Cawood, James C.,	220 14½ St., N. E.,	Clements, Md.
Cogan, George E.,	3301 O St., N. W.,	Bayonne, N. J.
Connerty, Harold V.,	1518 31st St., N. W.,	Bradley Beach, N. J.,
Constantinople, Pan- grote,	1234 10th St., N. W.,	Pirones, Greece,
Corrigan, Patrick H.,	806 11th St., N. W.,	Newark, N. J.
Cottone, Rosario G.,	1118 11th St., N. W.,	New York, N. Y.,
Debbie, Anthony G.,	1123 10th St., N. W.,	Scotch Plains, N. J.
Dilemuth, Henry G.,	1323 30th St., N. E.,	New York, N. Y.
Dull, John R.,	1012 10th St., N. W.,	Glade, Pa.
Fitzgerald, Wm. J.,	824 8th St., N. W.,	Troy, N. Y.
Geary, Paul,	3301 O St., N. W.,	S. Plainfield, N. J.
Grunewald, Hudson,	3016 Dunbarton Av.,	New Orleans, La.
Guardia, Thoma,	The Portner,	Panama City, Panama.
Hacking, Raymond F.,	3003 N St., N. W.,	Providence, R. I.
Hawkinson, Lloyd F.,	1323 30th St., N. W.,	Litchfield, Minn.
Hess, Valentine M.,	112 4th St., N. E.,	Washington, D. C.
Kelly, Leo J.,	1123 10th St., N. W.,	Brooklyn, N. Y.
LaNasa, Samuel S.,	1022 9th St., N. W.,	Geneva, N. Y.
Lee, John J.,	1025 8th St., N. W.,	Orange, N. J.
Lewis, John J.,	2400 16th St., N. W.,	Panama City, Panama.
Leonard, Edward F.,	1468 R. I. Ave.,	Paterson, N. J.
Magovern, Malcolm J.,	1010 11th St., N. W.,	Saratoga Springs, N. Y.
Mahoney, John W.,	1323 30th St., N. W.,	Pittsfield, Mass.
Mendoza, Carlos E.,	2400 16th St., N. W.,	Sanat Isabel, P. R.
Monserato, Manl. F.,	1518 31st., N. W.,	Panama City, Panama.
Morton, Thomas S.,	3003 N St., N. W.,	Tuxedo Park, N. Y.
McNulty, Edward J.,	3019 Dunbarton Ave.,	Tamaqua, Pa.
O'Brien, Charles F.,	1010 11th St., N. W.,	Chicopee, Mass.
Resnicksy, Andrew F.,	1123 10th St., N. W.,	Unionville, Conn.
Sanchez, Fructuso,	2439 18th St., N. W.,	Carolina, P. R.
Shea, James F.,	806 11th St., N. W.,	S. Hadley Falls, Mass.
Selwin, Abraham I.,	920 H St., N. W.,	New York, N. Y.
Serwinski, E. A.,	1224 Mass. Ave., N. W.,	Plymouth, Pa.
Shanno, Joseph J.,	1323 30th St., N. W.,	New York, N. Y.
Sheehan, William A.,	Georgetown College,	Boston, Mass.
Tierney, William J.,	1025 8th St., N. W.,	Amsterdam, N. Y.
Villipiano, Joseph G.,	1118 11th St., N. W.,	Asbury Park, N. J.
Walter, William A.,	3003 N St., N. W.,	Brooklyn, N. Y.
Walsh, Edward J.,	2131 Penna. Ave.,	Washington, D. C.
Walsh, John N.,	509 2nd St., N. W.,	Providence, R. I.
Whalen, Martin, A.,	1468 R. I. Ave.,	Grand Rapids, Mich.
Wilson, Canby L.,	1468 R. I. Ave.,	Anderson, Ind.

## SECOND YEAR.

Anderson, Richd. W.,	1323 30th St., N. W.,	Fort Worth Texas.
Argy, William P.,	1468 R. I. Ave.,	Turners Falls, Mass.
Boss, Eugene G.,	1468 R. I. Ave.,	Springfield, Mass.
Bray, Thomas A.,	1116 8th St., N. W.,	Holliston, Mass.
Brooks, Richmond C.,	903 E. Capitol St.	Washington, D. C.
Burke, Leo P.,	1715 35th St., N. W.,	Bath, Maine.
Cannon, Edward A.,	1323 30th St., N. W.,	North Bergen, N. J.

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Carey, Edward J.,	428 M St., N. W.,	East Rutherford, N. J.
Cooney, Richard W.,	1323 30th St., N. W.,	Erie, Pa.
Darby, Richard T.,	428 M St., N. W.,	New York, N. Y.
DeMayo, John L.,	1468 R. I. Ave.,	New Haven, Conn.
Evans, Andrew B.,	117 G St., N. E.,	Washington, D. C.
Fischer, Edwin J.,	1323 30th St., N. W.,	Montclair, N. J.
Ford, John W.,	1323 30th St., N. W.,	Fredericksburg, Va.
George, W. Wellin'tn.,	1206 Delafield Place.	Washington, D. C.
Hamel, Ignatius A.,	1430 R. I. Ave.,	Crookstown, Minn.
Huth, Peter E.,	1323 30th St., N. W.,	Rochester, Pa.
Joergensen, Hans.,	1011 M St., N. W.,	Washington, D. C.
Lane, Joseph A.,	Georgetown College,	Auburn, N. Y.
McCarron, Dennis D.,	1323 30th St., N. W.,	Lynchburg, Va.
McCawley, Walter E.,	1240 11th St., N. W.,	Carbondale, Pa.
Maloney, John T.,	1323 30th St., N. W.,	Waterbury, Conn.
Medes, Earl E.,	1323 30th St., N. W.,	Geneva, N. Y.
Meehan, George,	1815 Lamont St.,	Jersey City, N. J.
Murphy, John J.,	Georgetown Univ. Hosp.,	Jersey City, N. J.
O'Brien, John F.,	1323 30th St., N. W.,	Archbald, Pa.
O'Dea, Harold J.,	1206 Delafield Place,	Scranton, Pa.
O'Rourke, James J.,	817 N. Capitol St.,	Lambertville, N. J.
Reilly, Vincent R.,	428 M St.,	Des Moines, Iowa.
Riley, Walter J.,	3051 N St., N. W.,	Rochester, N. Y.
Russell, Frank J.,	1323 30th St., N. W.,	Baltimore, Md.
Schriver, James J.,	60 I St., N. W.,	Cumberland, Md.
Vitale, Dominic V.,		Elizabeth, N. J.
Welch, Thomas F.,	219 I St., N. W.,	Washington, D. C.
Yesko, Stephen A.,	Columbia Hospital,	Munhall, Pa.

## THIRD YEAR.

Bergmann, Geo. P.,	1468 R. I. Ave.,	Sayville, L. I.
Bryan, L. McKinstry,	1468 R. I. Ave.,	Philadelphia, Pa.
Burke, Emmett S.,	Wash. Asylum Hospital,	Scranton, Pa.
Cornet, Louis C.,	913 Md. Ave., N. E.,	Lawrenceburg, Ind.
Coughlan, Don. A.,	1468 R. I. Ave.,	Mankato, Minn.
Crawford, Harry J.,	Casualty Hospital,	Paterson, N. J.
Cusack, William J.,	1849 Kalorama Road,	Washington, D. C.
Jacobs, J. Bay,	3504 O St., N. W.,	New York, N. Y.
Kranichuck, M. J.,	1715 35th St., N. W.,	S. Hadley Falls, Mass.
Kubasco, Paul E.,	1323 30th St., N. W.,	Thropp, Pa.
Mattare, John J.,	1326 34th St., N. W.,	Washington, D. C.
O'Donnell, Jas. F.,	324 C St., S. E.,	Washington, D. C.
Pereira, Thomas,	1468 R. I. Ave.,	Nicaragua, C. A.
Phelan, Harold V.,	1468 R. I. Ave.,	Salamanca, N. Y.
Ruppe, John P.,	920 H St., N. W.,	Minneapolis, Minn.
Shea, Cyril E.,	1700 T St., N. W.,	Chicopee Falls, Mass.
Shepherd, Elmer R.,	3320 Mt. Pleasant St.,	Chatham, Va.
Stuart, Ralph C.,	Casualty Hospital,	Meddybemps, Maine.
Sweeny, Francis J.,	51 Adams St., N. W.,	New York, N. Y.
Vogel, Thomas A.,	1715 35th St., N. W.,	Columbus, Ohio.
Weissenborn, H. C.,	920 H St., N. W.,	Brooklyn, N. Y.
Yater, Wallace M.,	1011 M St., N. W.,	Washington, D. C.

## FOURTH YEAR.

Allen, George J.,	1838 Ingleside Terrace,	Washington, D. C.
Bartenmeier, Leo H.,	Children's Hospital,	Muscataine, Iowa.
Bou, Alfred,	1323 30th St., N. W.,	Porto Rico.
Bueche, Frederick R.,	1323 30th St., N. W.,	Steubenville, Ohio.
Davies, Harry F.,	1468 R. I. Ave.,	Pittsburgh, Pa.
Donoghue, Mat. E.,	3343 P St., N. W.,	Washington, D. C.
Donnelly, Matthias,	Georgetown Hospital,	Gloversville, N. Y.
Gardiner, David G.,	Garfield Hospital,	Washington, D. C.

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Ketcham, Wm. M.,	1468 R. I. Ave.,	Carthage, Mo.
Kocialek, Michl. J.,	1323 30th St., N. W.,	Avoca, Pa.
Moran, Robert E.,	1727 Columbia Road,	Washington, D. C.
Osborne, Raymond,	343 11th St., S. E.,	Washington, D. C.
Puleo, Dominic A.,	Georgetown Hospital,	New York, N. Y.
Reilly, Edward J.,	1323 30th St., N. W.,	Baltimore, Md.
Welch, Edmund D.,	219 I St., N. W.,	Washington, D. C.
Yost, Edward F.,	920 H St., N. W.,	Fairmont, W. Va.

## DEGREES OF DOCTOR OF MEDICINE.

Brown, Grafton Tyler.....	Washington, D. C.
Carbo, Ralph John.....	Connecticut
Elward, Joseph T.....	Pennsylvania.
Ewing, Monterville Q.....	Washington, D. C.
Marland, Albert Edward.....	Maryland.
McEnerney, Charles H.....	Connecticut.
Nelson, John A.....	Oklahoma.
Nagle, Joseph Francis.....	Pennsylvania.
Rapaport, Walter.....	Washington, D. C.
Shugrue, John Joseph.....	Washington, D. C.



## DENTAL DEPARTMENT

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### EXECUTIVE FACULTY.

REV. JOHN B. CREEDEN, S.J.  
*President of Georgetown University.*

FRANK A. CASTEEL, D.D.S.,  
*Vice-President and Professor of Operative Dentistry,* 1616 Eye Street.

BRUCE L. TAYLOR, D.D.S.,  
*Dean and Professor of Dental Pathology and Histology,* 816 14th Street.

GEO. M. KOBER, M.D., LL.D.,  
*Treasurer,* 1819 Q Street N. W.

P. BONNARD BAIN, D.D.S.,  
*Professor of Prosthetic Dentistry,* Woodward Building.

HERBERT HOPKINS, D.D.S.,  
*Professor of Orthodontia,* 826 Connecticut Avenue.

H. JANNEY NICHOLS, D.D.S.,  
*Professor of Oral Surgery,* 1339 K Street N. W.

W. B. HOOFNAGLE, D.D.S.,  
*Professor of Practice of Dental Medicine,* Evans Building.

HUGH B. MALOY, D.D.S.,  
*Professor of Crown and Bridge Work,* 1616 Eye Street N. W.

FRANCIS A. TONDORF, Ph.D., S.J.,  
*Professor of Physiology,* Georgetown University.

WILLIAM O. OWEN, M.D.,  
*Professor of Anatomy,* 2719 Ontario Road N. W.

JOHN D. HIRD, A.M., LL.B.,  
*Professor of Chemistry and Toxicology,* 1319 Farragut Street N. W.

RALPH A. HAMILTON, M.D.,  
*Professor of Bacteriology and Pathology,* 924 15th Street.

WILFRED M. BARTON, M.D.,  
*Professor of Materia Medica and Therapeutics,* 1730 Connecticut Avenue.

### REQUISITIES FOR ADMISSION.

Candidates for admission must have a minimum preliminary education of not less than four years from an accredited High School or its equivalent. The preliminary examination will not be required of an applicant who can show that he has covered the work of such an examination by furnishing an official certificate to that effect issued by a reputable literary or scientific college, academy, high school, or State examining board.\*

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\*Beginning with the Session of 1921-22 in addition to the foregoing requirements, evidence must be presented of the satisfactory completion of a one year course in an approved school in each of the following sciences, physics, chemistry and biology, or in lieu thereof the passing of each of these sciences at 75 per cent or above in Regents or State Licensing Examinations.

Graduates in medicine are eligible for admission to the second-year class, and are excused from examination in the studies pertaining to the medical course of recognized institutions.

Those presenting certificates of examination for advanced standing from other reputable dental colleges of equal requirements will be admitted to the corresponding higher class without further examination.

The preliminary examination will be held at the College Building the Monday and Tuesday preceding the last Wednesday in September. The regular session will begin the last Wednesday in September and end the last week of May. The Infirmary will be open each day from 9 A. M. to 5 P. M.

Students applying for admission later than ten days after the opening day of the session cannot be credited with a full course unless such delay is due to sickness, which must be vouched for by the certificate of a reputable practicing physician. In such case the date of admission shall not be later than twenty days from the opening day.

#### **Credit for Work Done in Other Colleges.**

Students from accredited dental colleges may be admitted under the following rules:

They must present evidence satisfactory to the Dean that their entrance credentials were equal to the published requirements of this school.

They must present evidence of having passed a satisfactory examination in the branches for which they seek credit, in some other reputable Dental School whose requirements equal our own.

The Dean will verify the credentials from other Dental Schools and will not admit a student to advanced standing without communicating with the school from which said student wishes to withdraw, and receiving a certification of the applicant's standing in that school.

Reports on inquiry from other schools shall show the marks in those branches in which the student has failed as well as the final make-up marks.

Conditions contracted in other Dental Schools requiring additional work for their removal will require a similar procedure in this school.

#### **Graduates in Dentistry.**

A graduate from another Dental College may obtain a diploma from this school provided he presents evidence of en-

trance qualifications equal to the requirements for admission to this school.

He must submit the required time and subject credits from the college from which he graduated, together with his diploma; he must attend all the courses of the fourth year; pass a satisfactory examination and meet all other requirements for graduation.

### Special Students.

Persons not candidates for the degree of D.D.S. may be admitted without examination as special students and may attend any of the courses upon giving satisfactory evidence that they are qualified to avail themselves of the instruction. Subjects completed to the satisfaction of the Head of the Department may be credited subsequently if the student enters upon a regular dental course within two years thereafter and has complied with the published requirements for admission.

### Fees.

Matriculation fee, payable once on entrance to the first year course.....	\$ 5.00
Tuition, each year.....	175.00
Graduation fee .....	10.00
Supplementary examination, each.....	5.00
Summer courses, infirmary and laboratory, four months .....	30.00

This includes all laboratory fees and charges for materials used in practical anatomy. Students will, however, be required to pay \$10 breakage fee for possible injury to apparatus and other college property.\*

For Special Students:

Didactic lectures for each chair.....	\$25.00
Dissection (anatomy) .....	30.00
Practical chemistry, including chemicals, per course .....	30.00

Payment of not less than one-third of the fees is required at the commencement of the session, one-third January 1st, and the balance April 1st.

A student repeating the course for any reason will be charged the full fee for that course, unless otherwise directed by the Executive Faculty.

\*All breakage and loss of books not directly traceable to the individual student is assessed *pro rata*, and any sum remaining to the credit of the student will be returned at the expiration of the course.

### Methods of Instruction.

The course of instruction will consist of clinical and illustrated lectures, recitations, demonstrations, dissecting and laboratory work, and clinical instructions. The number of students taken in each class allows each member to come into close contact with the professors, and insures the most thorough individual instruction. The Dental Laboratory is fully equipped with every modern appliance and ample lockers, etc. Here the student receives his first instruction. Every process of value known to mechanical dentistry is taught in this department.

Demonstration by the instructors begin with taking impressions of the mouth by the use of the several materials employed for that purpose. The instruction includes consideration of the construction of artificial dentures, crown and bridge work and obturators in all their wide variety.

The Clinical Department or Infirmary consists of large *operating rooms*, supplied with all the latest devices. The chairs are so arranged as to command the best light. There are separate rooms for the administration of anæsthetics for the extraction of teeth; also for taking impressions, occlusions, and doing work requiring the use of plaster or wax, and for X-Ray work.

There is also a department of Oral Surgery attached to the Georgetown University Hospital, where students have the privilege of witnessing all the operations pertaining to cleft palate, hare-lip, fractured maxilla, empyema of antrum, etc. There is also installed in this department the most modern X-Ray apparatus for the examination of defects and diseases of oral cavity and for making Skiagraphs in cases of delayed eruption of teeth—impacted teeth, fracture of the jaw, etc. Both infirmaries are under the immediate and continuous direction of a corps of competent demonstrators, who are ready to instruct and assist the students in their work. In these departments the student is taught the art of operative and prosthetic dentistry. The number of patients is very great, and the opportunity for practice is excellent. The student not only witnesses every kind of dental operation as practiced by the experienced operator, but is himself taught to accomplish all that pertains to the daily duties of a dental surgeon by actual practice.



This intimate union of theoretical and practical instruction will be insisted on during the entire session.

No student will be allowed to operate in the infirmary unless provided with the necessary instruments, a list of which is obtained on application to the demonstrator in charge, with the exception of forceps, lathes and vulcanizers. All expenses attending operations upon college patients are borne by the institution.

Students are **required** to continue in attendance until the close of the session in order to obtain credit for the full term.

Any student associated in any capacity in an advertising dental office will not be allowed to continue his course.

The students are graded in four classes, designated as the first, second, third and fourth year, and are *obliged* to attend regularly each session during the year.

A practical course of four months is given in the Infirmary, from June 1st to October 1st, for which a fee of \$30.00 is charged. The course embraces a thorough instruction in Operative and Prosthetic Dentistry and Anæsthetics.

### Curriculum.

The students are gathered in four classes, designated as the first, second, third and fourth year.

The complete curriculum of study comprises four courses extending throughout four years; each annual course is of 32 weeks' duration, with 35 hours per week of instruction.

The courses shall consist of didactic lectures, recitations, laboratory work, demonstrations and practical work in the Infirmary with other practical clinics and examinations.

No time credit will be allowed for the possession of a Bachelor Degree, but credit may be allowed for the particular subjects when an applicant passes an examination therein satisfactory to the head of the respective department. Four years attendance at a Dental College whose requirements equal our own are required of all candidates for the degree of Doctor of Dental Surgery, the last to be pursued at this institution.

The branches of study pursued and the arrangement of the courses according to years are shown in the table given on the next page.



## DENTAL COURSE OF 4444 HOURS ARRANGED ACCORDING TO YEARS.

Subjects.	Lectures, Recitations and Demonstrations	Labora- tory Work	Clinic	Total Class Work
<b>FIRST YEAR:</b>				
Biology .....	32	64	..	96
Physics .....	32	64	..	96
English .....	96	..	..	96
Technical Drawing.....	..	48	..	48
Dental Anatomy.....	32	64	..	96
Chemistry .....	64	96	..	160
Anatomy .....	64	96	..	160
Physiology .....	64	..	..	64
Operative Technic.....	16	80	..	96
Prosthetic Technic.....	16	80	..	96
	480	528	..	1008
<b>SECOND YEAR:</b>				
Chemistry .....	64	96	..	160
Anatomy .....	64	96	..	160
Physiology .....	64	28	..	92
Operative Technic.....	16	80	..	96
Prosthetic Technic.....	32	160	..	192
Histology and Embryology.....	34	94	..	128
Pathology, General.....	20	44	..	64
Bacteriology .....	16	48	..	64
Histology, Dental.....	32	16	..	48
Prosthetic Dentistry.....	32	..	..	32
	374	662	..	1036
<b>THIRD YEAR:</b>				
Prosthetic Dentistry.....	16	80	..	96
Materia Medica and Pharmacology.....	64	32	..	96
Pathology, General.....	..	32	..	32
Bacteriology .....	..	32	..	32
Operative Dentistry.....	64	..	..	64
Prosthetic Dentistry.....	32	..	..	32
Crown and Bridge Work.....	32	128	..	160
Dental Medicine.....	16	..	..	16
Pathology, Dental.....	32	..	..	32
Physical Diagnosis.....	32	..	..	32
Orthodontia .....	32	..	16	48
Infirmary .....	..	..	288	288
	384	304	336	1024
<b>FOURTH YEAR:</b>				
Crown and Bridge Work.....	32	128	..	160
Orthodontia .....	32	..	16	48
Operative Dentistry.....	64	..	..	64
Prosthetic Dentistry.....	32	..	..	32
Pathology, Dental.....	32	..	..	32
Jurisprudence and Ethics.....	32	..	..	32
Oral Surgery.....	64	..	32	96
Radiology .....	16	..	..	16
Oral Hygiene.....	16	..	16	32
Infirmary .....	..	..	960	960
	256	128	992	1376
<b>RECAPITULATION:</b>				
First year.....	480	528	..	1008
Second year.....	374	662	..	1036
Third year.....	384	304	336	1024
Fourth year.....	256	128	992	1376
	1494	1622	1328	4444

### Examinations.

Professors and Instructors render monthly reports to the Dean upon the attendance and progress of each student in every course, and at the close of the first semester an examination is held to test the proficiency and advancement of every student.

At the conclusion of the instruction in each department there is held annually a written examination on all the subjects of that department. Each written examination may be supplemented by a practical or oral examination should the Professor or Instructor in charge of that branch so decide. Before the examination, the instructor in the subordinate branches submits to the Professors in charge the questions that they desire to be included.

A student who has less than 75 per cent. credit for attendance in the course is not eligible for examination, and no student shall be admitted to an examination for advancement or graduation until all indebtedness for instruction is paid.

Any student who attempts to give or who receives aid in any manner from another, or who brings into the examination room any book, notes or other memoranda on the subject-matter of the examination, or who attempts to communicate with another student, except through the person conducting the examination, shall be suspended or expelled, as the Executive Faculty may direct.

The standing of a student in any branch will be determined by combining the record of his recitations and examinations, both written and oral, and his laboratory and clinical work.

The instructors in each subordinate branch shall report within five days after an examination is held to the Senior Professor of that particular chair the standing of each student, and this rating shall be used in estimating the standing in the principal branch. The examination marks are graded upon a scale of 100 as a maximum mark, and each student must attain a grade of 75 in all of his subjects.

All reports on final examinations are rendered by the heads of the departments within ten days after such examinations are held.

### Conditions and Failures.

A grade between 60 and 75 per cent. in any subject constitutes a condition, and three conditions constitute a failure. A

grade below 60 per cent. in any subject also constitutes a failure and the student will be required to repeat the course.

Candidates for graduation shall be informed of their success or failure by the Dean on the day following the report to the Faculty of their rating, and all other students within 15 days after examination.

### **Rules Governing Removal of Conditions and Supplementary Examinations.**

A student who fails in a subject, but with a final grade in that subject not below 60 per cent., is entitled (after payment of the required fee) to a supplemental examination. This applies also to students who were absent from the regular examination.

A student who fails in a subject with a final grade below 60 per cent. must repeat all or part of the work of that subject before being eligible to an examination. Such repeating may be done (a) in an approved summer course, (b) under an approved tutor, or (c) with the regular course given to the next class, according as the Executive Faculty may direct.

After repeating a subject the student is eligible to enter the next examination, regular or supplementary.

The supplementary examinations for the first, second and third years will be given before October 10th. Students must inform themselves of the exact dates by application to the Registrar.

A student, entitled to enter a supplementary examination, who fails to appear at the time scheduled for the examination, must repeat the subject before being eligible for examination.

Under very exceptional circumstances, such as serious personal illness, a special examination may be allowed by vote of the Executive Faculty. This entails a fee in excess of that for supplementary examinations.

Subsequent examinations after failure in any subject shall never entitle a grade above passing.

A student who fails to remove a condition after repeating the subject cannot receive further instructions, examination or credit in that subject in this school and is thereby automatically excluded from graduation.

### **Promotion and Classification.**

The regular promotion from one class to another will be made by the Executive Faculty after the May examination,

and each student shall be informed in writing of his standing within 15 days after such an examination. It being impossible for a student to carry on the succeeding year's work with conditions of the preceding year, every effort must be made by the student to remove the conditions in the manner already prescribed.

A student will not be allowed to enter a higher class until he has shown his fitness to carry the work of that class. In deciding the question of fitness the Faculty will be guided by the following rules:

1. By October 10th the student must have passed in all subjects of the class one year below that which he wishes to enter.

2. A student who is not promoted may be permitted to take any subject of the next higher class for which he is sufficiently prepared, provided it does not interfere with the scheduled work of any course in which he is conditioned.

Upon failure in one subject of the fourth year a student may, with the approval of the Executive Faculty, be allowed the privilege of a re-examination before October 10th. If he passes he shall receive his degree at the following commencement; if he fails again he must repeat the year.

### **Requirements for Graduation.**

At the close of the fourth year a student who has passed all examinations satisfactorily receives the degree of Doctor of Dental Surgery (D.D.S.) on the following conditions:

Candidates must be of age and of good moral character.

Candidates must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instructions in all departments, and the last course of instruction must have been at this college.

Candidates must sign an agreement with the Dean to live up to the ethics of the profession.

The examinations are conducted orally and in writing, and are held at the middle and close of each term, thus dividing the strain upon the student.

Prior to such examinations specimens of operations upon patients which were performed in the Dental Infirmary must be exhibited to the Professor of Operative Dentistry, and such other specimen work, as he may require; also approved specimens of dental mechanism constructed in the Dental Labora-

tory upon models for practical use, must be submitted to the Professor of Oral Prosthesis.

No student will be admitted to examination for advancement or graduation until all indebtedness for instruction shall have been paid.



## Course of Study

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### English.

PROF. WILLIAM J. CULLINAN, A.M.

The purpose of this course is to give, in one year, the outline of a practical study of English. The theory of composition is given with the idea of having the student apply the precepts in analyzing authors, and as a guide in theme work. Editorials are discussed, both from a view to modern style, and as example of argumentation. One day is devoted to public speaking, the class resolving itself into a debating society for the discussion of current questions. The end sought is to give the student, as far as possible, a ready knowledge of the means of clear expression.

### Technical Drawing.

PROF. WILLIAM B. PAIN.

The student is exercised in the use and care of drawing instruments, in lettering and mechanical drawing, including charts, projection, tooth form, anatomical drawings, and dental instruments.

### Physics.

PROF. THOMAS MILEY, S.J.

The course in physics consists of two hours per week of didactic work, supplemented by four hours per week of laboratory work. The course extends over one semester. The principles and topics discussed are chiefly those which have particular importance in dental work. The purpose of the laboratory exercises is to familiarize the student with the direct application of these principles. Written reports of the individual laboratory experiments are required of each student.

### Biology.

PROF. WILLIAM F. HEMLER, M.D.

This course is followed in the first year. It consists of the study of the unicellular organism; the dissection of the frog and the microscopic study of elementary tissues. The general biology of plant life is included.

## I. DEPARTMENT OF ANATOMY.

PROF. WILLIAM O. OWEN, M.D.,  
*Chairman.*

WILLIAM F. HEMLER, M.D.,  
*Professor of Histology and Embryology.*

BRUCE L. TAYLOR, D.D.S.,  
*Professor of Dental Histology.*

W. B. HOOFNAGLE, D.D.S.,  
*Instructor in Dental Anatomy.*

### Osteology.

This course is conducted by Professor Owen, and includes a careful study of every bone in the human body, the student being required to point out and designate the important and technical features upon an actual specimen. For the study of the skeleton is very much like the study of the softer parts in the dissecting room, and is an indispensable preliminary to that work.

### General Anatomy.

General anatomy is thoroughly taught in the most careful manner. Models, plates and cadavers are abundantly supplied for the proper illustration of the subject. Special attention will be given to the descriptive anatomy of the head, face, neck and oral cavity.

The demonstrator of practical anatomy will have charge of the class in the dissecting room, where dissecting material will be supplied in abundance.

### Dental Anatomy.

The course of this branch of Dental Science has been built up after years of experience in teaching this subject.

A study of the deciduous teeth is first taken up with the student until he becomes familiar with their names, positions, number and period of eruption.

The anatomy of the permanent teeth is carefully studied with a view to preparing the student to supply by artificial means the part or parts of the teeth in correct anatomical form and relation, which have been lost by decay.

The course during the first semester consists of lectures and blackboard illustrations, followed by laboratory work, such as molding and carving, all under the supervision of competent instructors.

### Histology and Embryology.

This course is conducted by Prof. Hemler, and consists chiefly of laboratory work. Recitations, with explanatory talks illustrated by charts and blackboard drawings, precede the laboratory work of the day and aid in interpreting its specimens. The laboratory is large and well lighted. Each student is furnished with a microscope, locker and accessories, and instructed in the theory and practical use of the microscope. The elementary tissues are studied in the fresh state as well as after being stained and mounted. In the study of the organs, practical instruction is given in the preparation of mounted specimens, the actual work, so far as is practical, being done by the student. The relations of histology to embryology, physiology and pathology are duly considered. Throughout the course, drawings with descriptive notes are made by the student of the microscopic appearance.

### Dental Histology.

The study of dental histology is taken up in the second year and continues throughout the year.

The course is conducted by Prof. Taylor and consists in the study of the structures of the teeth and their associate parts, including their development.

The laboratory work includes the study of prepared specimens of the dental tissues and illustrations with lantern slides.

## II. DEPARTMENT OF PHYSIOLOGY.

PROF. FRANCIS A. TONDORF, Ph.D., S.J.,

*Chairman.*

GEORGE R. ELLIS, D.D.S.,

*Assistant Professor.*

One of the features of the progress and development of modern dentistry is its closer association with the wider field of general medicine, through recognition of the fact that the foundation of each special branch are common to all. The dental practitioner of today, therefore, must acquire a fuller knowledge of the whole organism, in order that he may the more intelligently deal with that part of it which is his immediate province. To this end the student will find, in this course, especial emphasis laid upon the fundamental principles of physiology, while the practical application will be pointed out in lectures, recitations, and practical demonstrations. Stu-

dents of the second year are required to take two hours of laboratory work per week for one semester. The experiments cover the physiology of the muscle, nerve, heart, circulation of the blood and respiration. Written reports of all work are exacted.

### III. DEPARTMENT OF CHEMISTRY.

PROF. JOHN D. HIRD, A.M., LL.B.,  
*Chairman.*

It will be the aim of the professor of this chair to give an accurate knowledge of the principles of the science, dwelling especially upon those points which are of peculiar interest to the dental student. Careful attention will be paid to the chemistry of anæsthetics, the special chemistry of the mouth, the stomach, and intestinal tract.

### IV. DEPARTMENT OF BACTERIOLOGY AND PATHOLOGY.

PROF. RALPH A. HAMILTON, M.D.,  
*Chairman.*

BRUCE L. TAYLOR, D.D.S.,  
*Professor of Dental Pathology.*

#### Bacteriology and Pathology.

The study of these important subjects is obligatory. This has been made necessary on account of their close relationship to dental pathology and therapeutics. The instructions are principally practical, and embrace full laboratory teaching of the most important subjects of these studies.

#### Dental Pathology.

The study of Dental Pathology is taken up at the beginning of the third year and continues until the end of the fourth year. Diseases and malformations of the structures of the teeth, together with the study of the diseases of the pulp, pericementum and surrounding tissues of the mouth are given special attention.

The study of oral infections which may be the cause of systemic diseases is considered from the standpoint of the latest investigations.

## V. DEPARTMENT OF MATERIA MEDICA AND THERAPEUTICS.

PROF. WILFRED M. BARTON, M.D.,  
*Chairman.*

CHARLES I. GRIFFITH, Phar.D., M.D.  
*Professor of Materia Medica and Pharmacology.*

W. B. HOOFNAGLE, D.D.S.,  
*Professor of Dental Medicine.*

### **Materia Medica and Therapeutics.**

A complete course of materia medica and general therapeutics will be given and special attention will be called to the nature and therapeutic uses of those drugs required in dentistry. Students will be given opportunities to become personally familiar with the physical properties of drugs, the compounding of prescriptions, and the methods of applying topical remedies.

In this course the student will be made familiar with the different agents used to accomplish anæsthesia, and contra-indication of their use, and practical demonstration in the infirmary of the different methods employed for the administration of the various anæsthetics.

### **Dental Medicine.**

Special attention will be given to Dental Pharmacology and the practical application of such drugs and agents as are generally used in a dental infirmary or in actual practice. The oral manifestation of systemic conditions will receive attention.

## VI. DEPARTMENT OF OPERATIVE DENTISTRY.

PROF. FRANK A. CASTEEL, D.D.S.,  
*Chairman.*

GEORGE R. ELLIS, D.D.S.,  
*Assistant.*

WILLIAM V. CONNORS, D.D.S.,  
*Superintendent of Infirmary.*

W. B. HOOFNAGLE, D.D.S.

E. WALTON SCHULTZE, D.D.S.

GEORGE A. SMITH, D.D.S.

JAMES W. BROWN, D.D.S.

Operative dentistry is taught in the Junior and Senior years. It consists of a series of didactic lectures supplemented by lantern slides and models, which enables the student to grasp



the technic of the various operations which are performed in the mouth. The preparation of the different materials, and the methods used to insert them as fillings, is carefully and scientifically taught, together with the modern methods of cavity preparation, which are so essential for the success of a perfect operation.

In the Infirmary the student is required to operate each day so that he may perfect himself in the handling of his instruments and materials. Here he is under the supervision of the demonstrators, who assist him, so that by the end of the senior year he becomes a successful operator, with the ability to handle a practice of his own.

### **Operative Technic.**

PROF. W. B. HOOFNAGLE, D.D.S.  
E. WALTON SCHULTZE, D.D.S.,  
JAMES W. BROWN, D.D.S.,  
GEORGE A. SMITH, D.D.S.,  
*Assistants.*

The object of this course is to train the student in the preparation of cavities, the handling of instruments and the manipulation of filling materials, so that he has a thorough understanding of operative work before he begins to operate on patients in the infirmary.

First, the student is required to carve in plaster enlarged models of the natural teeth. In these plaster teeth he prepares the five classes of cavities. This gives him not only a knowledge of proper tooth form, but also the correct form for the various cavities which are found when operating in the mouth. After this work is done, he then prepares cavities in extracted teeth, which he is taught to fill with the different filling materials. The proper method of opening pulp chambers and the enlarging and filling of root canals is also carefully taught. Each student is required to do the work under supervision of the demonstrators.

This course begins in the second semester of the first year, and continues throughout the second year.

## **VII. DEPARTMENT OF ORAL PROSTHESIS.**

PROF. P. BONNARD BAIN, D.D.S.,  
*Chairman.*

WILLIAM K. BRADFIELD, D.D.S.,  
*Special Lecturer.*

FREDERICK CARY, D.D.S.,  
*Associate Professor.*

CHARLES BASSACHES, D.D.S.,

*Chief of Laboratory Instruction.*

CHARLES L. SMITH, D.D.S.,

*Assistant.*

The instruction in this department is designed to impart a knowledge of all that pertains to the construction and application of artificial dentures and other oral restorations.

The more important subjects considered are: The preparation and treatment of the mouth for artificial denture, the taking of impressions, a system of perfect articulations, the method of constructing the different bases used for dentures, and the construction and application of obturators.

Esthetic or artistic dentistry is systematically taught and enforced. In this it is shown how dentistry may be employed for improving natural deformities and for restoring the contours of the face.

Careful attention will be paid to the chemistry of metals and all the materials used.

### **Metallurgy.**

This course consists of a thorough study of the metals used in dentistry. Students are also instructed in the art of making and tempering instruments.

### **Prosthetic Technic.**

FREDERICK CARY, D.D.S.,

*Associate Professor.*

The course in prosthetic technic is of the utmost importance to the beginner. The student is thoroughly instructed in the mixing of plaster; the selection of proper impression casts; taking of impressions by the various methods; pouring of casts; the construction of trial plates and taking the occlusion; the setting up of the teeth used in such cases, vulcanizing and finishing of hard vulcanite dentures; casting metal dies and counter dies; swaging, soldering and constructing metal plates.

## **VIII. DEPARTMENT OF CROWN AND BRIDGE WORK.**

PROF. HUGH B. MELOY, D.D.S.,

*Chairman.*

CHARLES BASSECHES, D.D.S.,

*Assistant.*

DORAN S. THORN, D.D.S.,

*Assistant.*

This course consists of a series of didactic lectures and practical laboratory instruction, extending over a period of two years. The lectures are illustrated by lantern slides, charts and models. Particular attention is given to the subject of removal bridge work.

## IX. DEPARTMENT OF ORTHODONTIA.

PROF. HERBERT C. HOPKINS, D.D.S.,  
*Chairman.*

The treatment of irregularities of the dental arch requires great skill and judgment. Lectures upon this subject will be entirely practical, and the student will be taught the most approved scientific methods of correcting these deformities. This course of teaching will include the making of orthodontic appliances.

## X. DEPARTMENT OF ORAL SURGERY.

PROF. H. JANNEY NICHOLS, D.D.S.,  
*Chairman.*

W. S. BENEDICT, D.D.S.,  
*Assistant.*

C. E. CHANNING, D.D.S.,  
*Assistant.*

This subject is taken up and continues throughout the Senior year. The anatomy of the head and neck is studied carefully, so that the student may become thoroughly acquainted with the normal condition of those parts, and thereby be better able to recognize pathological conditions. Both local and general anesthesia is taught and the student becomes familiar with "Conduction anesthesia" or "nerve blocking," which is used to such a great extent today by Oral Surgeons.

The class is divided into sections and required to attend clinics which are given twice a week at the Infirmary and Hospital. In this way the student sees various operations performed by different operators and becomes familiar with surgical technic and asepsis. The use of the X-Ray for diagnostic purposes is also taught.

## XI. DEPARTMENT OF ORAL HYGIENE.

PROF. BRUCE L. TAYLOR, D.D.S.,  
*Chairman.*

This important subject will be thoroughly presented by a series of lectures, supplemented by clinical demonstrations in the Infirmary.

## XII. DEPARTMENT OF RADIOLOGY.

W. S. BENEDICT, D.D.S.,  
*Special Lecturer.*

CHARLES L. SMITH, D.D.S.,  
*Assistant.*

MICHAEL L. MULLANEY, D.D.S.,  
*Special Lecturer.*

This course is given during the fourth year and is both practical and theoretical, and includes a description of modern apparatus and its practical application. Demonstrations in the use of Roentgen rays in the diagnosis of pathological processes of the head and teeth and other abnormal conditions encountered in oral surgery.

## DENTAL INFIRMARY.

WILLIAM V. CONNORS, D.D.S.,  
*Superintendent.*

GEORGE R. ELLIS, D.D.S.\*

CHARLES BASSECHES, D.D.S.,  
*Superintendent of Laboratories.*

H. DeC. ADAMS, D.D.S.,

CHARLES LONGCOR, D.D.S.,

MARTIN A. STOHLMAN, D.D.S.,

MICHAEL HARRIS, D.D.S.,

CLARENCE F. KOHLMEIER, D.D.S.,  
*Demonstrators.*

The Dental Infirmary consists of a large operating room situated on the second floor, with ample light even on the darkest days. Special rooms are reserved for the administration of anæsthetics, extracting and taking impressions, and X-Ray work.

The Infirmary is open all the year and there is an abundance of clinical material at all times. The X-Ray apparatus is used extensively and the Senior Students are instructed in the proper interpretation of the pathological processes as shown by the radiographs.

Special clinics and demonstrations are given by the professors and instructors of the School, and other ethical practitioners at stated intervals, which give the student an opportunity to observe the application of methods, as taught by the different chairs and dental experts.

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\*On Leave.

For further information apply in person or by letter to

BRUCE L. TAYLOR, D. D. S., *Dean*.  
920 H Street, N. W., Washington, D. C.

H. B. MERRITT, *Registrar*,  
920 H Street, N. W.



## Matriculates, Dental School, Session 1919-1920

### FIRST YEAR.

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Aarons, Isaac N.,	Alabama Apartments,	Montego Bay, Jamaica.
Alderman, James W.,	1746 Kilbourne Place,	Washington, D. C.,
Binkert, Damon A.,	4 Concord Av., N. E.,	Washington, D. C.,
Clepatch, Henry,	1546 D St. S. E.,	Washington, D. C.,
Connor, John D.,	815 11th St., N. W.,	Dushore, Pa.
Chadzewicz, Vincent A.,	32 K St., N. E.,	Rockville, Conn.
Devine, Edwin K.,	3003 N St., N. W.,	Providence, R. I.
Davis, Llewellyn W.,	1843 Park Road,	Washington, D. C.
Fahey, John S.,	815 11th St., N. W.,	Pittsburgh, Pa.
Finnerty, Joseph A.,	Plymouth Apartments,	Jersey City, N. J.
Gavelda, Charles J.,	824 8th St., N. W.,	Clarksburg, W. Va.
Goggins, John,	Smithfield Apartments,	Stamford, Conn.
Gonzalez, Pedro J.,	1115 I St., N. W.,	Santurce, P. R.
Haggerty, Richard A.,	1308 10th St., N. W.,	Dunmore, Pa.
Horning, James B.,	3319 16th St., N. W.,	Washington, D. C.
Holmes, Fred J.,	3003 N St., N. W.,	Providence, R. I.
Kane, Albert J.,	1325 Delafield Place,	Geneva, N. Y.
King, George,	Albemarle Apts.	Elizabeth, N. J.
Kelleher, Charles L.,	1495 Newton St.,	Washington, D. C.
Kivney, Thomas J.,	61 I St., N. W.,	Hartford, Conn.
Lavender, G. William,	1134 10th St., N. W.,	Cabin Creek, W. Va.,
Mackwiz, Edward,	712 12th St., N. W.,	Hazleton, Pa.
Manley, Joseph F.,	1318 10th St., N. W.,	Dunmore, Pa.
Martin, C. L.,	1134 10th St., N. W.,	Cedar Grove, W. Va.
Miller, A. G.,	1615 Q St., N. W.,	Erie, Pa.,
Mahoney, James E.,	Hotel Arlington,	Natick, Mass.
Murphy, Joseph F.,	Plymouth Apartments,	Jersey City, N. J.
McCarthy, Joseph C.,	1115 9th St., N. W.,	Bloomfield, N. J.
McCrystal, Robert,	815 Conn. Ave., N. W.,	Washington, D. C.
McGuirk, James J.,	1029 22nd St., N. W.,	Niles, Ohio.
MacDonald, Archie E.,	1209 11th St., N. W.,	Newport, R. I.
Nash, Francis N.,	1302 Irving St.,	Elmira, N. Y.
Natiella, Gerald A.,	1229 N. Y. Ave.,	Utica, N. Y.
O'Brien, Thomas F.,	Albemarle Apartments,	Jersey City, N. J.
O'Leskie, Walter S.,	Plymouth Apartments,	Bayonne, N. J.
Ostergren, William F.,	1221 1st St., N. W.,	Brooklyn, N. Y.
Pursell, James L.,	1318 10th St., N. W.,	Dunmore, Pa.
Reilly, Austin,	1325 Delafield Place,	Penn Yan, N. J.
Reidy, John J.,	201 E St., N. W.,	Springfield, Mass.
Sakis, Stratis P.,	1101 9th St., N. W.,	Nytilene, Greece.
Schwartz, Max.	942 R. I. Ave.,	Jersey City, N. J.
Smith, Henry W.,	3457 Holmead Place,	Washington, D. C.
Schweikart, Clarence J.,	932 K St., N. W.,	Newark, N. J.
Schroth, Alvin L.,	932 K St., N. W.,	Kearney, N. J.
Stump, Lorentz K.,	1209 11th St., N. W.,	Phillipi, W. Va.
Swift, Donald A.,	1318 10th St., N. W.,	Dunmore, Pa.
Toomey, William F.,	811 10th St., N. W.,	North Adams, Mass.
Wilkinson, Joseph L.,	423 Mass. Ave.,	Shenandoah, Pa.
Whitney, George P.,	Alabama Apartments,	Pittsburgh, Pa.
Weldon, Vincent J.,	3117 N St., N. W.,	Bridgeport, Conn.
Wiezlowski, Francis W.,	3117 N St., N. W.,	Throop, Pa.
Wells, Paul H.,	1007 Montana Av., N. E.,	Barre, Vt.
Moore, Francis J.,	506 I St., N. W.,	Herkimer, N. Y.

## SECOND YEAR.

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Anastasia, Frank M.,	806 10th St., N. W.,	New Haven, Conn.
Barr, Roger F.,	314 Indiana Ave.,	Creston, N. C.
Boyle, John,	Melbourne Apartments,	Bayonne, N. J.
Buyatt, William J.,	Albemarle Apartments,	Bayonne, N. J.
Dove, Ronald C.,	1014 12th St., N. W.,	Westerly, R. I.
Dreifus, Carl D.,	Alexandria, Va.,	Alexandria, Va.
Fifer, Frank,	Melbourne Apartments,	Bayonne, N. J.
Golden, Frank L.,	Albemarle Apartments,	Jersey City, N. J.
Hopkins, Stephen C.,	Chevy Chase, Md.,	Chevy Chase, Md.
Leighty, Orlando,	Georgetown College,	Connellsville, Pa.
Moraza, Ramon,	725 12th St., N. W.,	Porto Rico.
McClarron, Paul T.,	1014 12th St., N. W.,	Auburn, N. Y.
Redden, James A.,	Albemarle Apartments,	Springfield, Mass.
Roberts, Nevelle,	Alexandria, Va.,	Alexandria, Va.
Shannon, James H.,	Smithfield Apartments,	Stamford, Conn.
Vanyo, Joseph C.,	918 M St., N. W.,	Bellaire, Ohio.

## THIRD YEAR.

Barrett, Charles E.,	1406 11th St., N. W.,	Hartford, Conn.
Burke, John P.,	122 C St., S. E.,	Wilmington, Del.
Creamer, David G.,	1619 17th St., N. W.,	Holidaysburg, Pa.
Field, John J.,	420 6th St., N. W.,	Lutcher, La.
Gottlieb, Simon D.,	615 Irving St., N. W.,	Washington, D. C.
Hill, John T.,	1710 16th St., N. W.,	Washington, D. C.
Igo, Frank H.,	1313 Mass. Ave., N. W.,	New Haven, Conn.
Jauregui, Gabino,	935 N. Y. Ave., N. W.,	Argentine, S. A.
Mattia, Virginius T.,	431 M St., N. W.	Newark, N. J.
Nagle, John R.,	Iroquois Apartment,	Bayonne, N. J.
Nalebuff, Harry,	715 R. I. Ave., N. W.,	Newark, N. J.
O'Donnell, Dennis J.,	324 C St., S. E.,	Washington, D. C.
O'Brien, Arthur G.,	1212 L St., N. W.,	Brooklyn, N. Y.
Ponte, Rafael,	12 Grant Place,	San Juan, P. R.
Prendergast, Michael,	1207 L St., N. W.,	Jersey City, N. J.
Robert, Harry J.,	1009 17th St., N. W.,	Switzerland.
Rosenblum, Alexander,	704 M St., N. W.,	Bayonne, N. J.
Ross, James J.,	231 2nd St., S. E.,	Revere, Mass.
Scala, Thomas,	431 M St., N. W.,	Bayonne, N. J.
Sharkey, James H.,	Iroquois Apartment,	Bayonne, N. J.
Weintraub, Carpen C.,	431 M St., N. W.,	Paris, France.

## FOURTH YEAR.

Appleton, Frederick O.,	904 M St., N. W.,	Saratoga, N. Y.
Boston, John,	Portland Hotel,	Warrenton, Va.
Brown, Paul W.,	629 F St., N. E.,	Wellsville, N. Y.
Conley, Philip J.,	Atlantic Apartments,	Crompton, R. I.
Conran, Wilson R.,	26 S St., N. W.,	Hartford, Conn.
Custo, Jose M.,	629 F St., N. E.,	Troy, N. Y.
Clements, Matthew P.,	1015 E St., N. E.,	Meriden, Conn.
Downs, William V.,	1116 Monroe St.,	Shanghai, China.
Dunphy, John J.,	1242 10th St., N. W.,	Haydenville, Mass.
Flaherty, L. C.,	1400 Pa. Ave., S. E.,	Washington, D. C.
Guilfoyle, John H.,	1230 Mass. Ave., N. W.,	Bayonne, N. J.
Holtzman, Israel,	600 E St., N. E.,	Washington, D. C.
Lesnie, Nathan,	1109 14th St., N. W.,	Washington, D. C.
Livingston, L. R.,	1729 H St., N. W.,	East Orange, N. J.
Marks, Emil,	1105 6th St., N. W.,	Washington, D. C.
Phillips, Abraham I.,	1105 6th St., N. W.,	Washington, D. C.
Post, Thomas A.,	212 I St., N. W.,	Washington, D. C.
Roca, J. F.,	918 M St., N. W.,	Bolivia.

<i>Name.</i>	<i>City Address.</i>	<i>Home Address.</i>
Singer, Morris M.,	1105 6th St., N. W.,	Washington, D. C.
Sontag, William.	1105 6th St., N. W.,	Washington, D. C.
Stebbins, Edward,	New Berne Apart.	Middletown, Conn.
Trantham, George C.,	908 L St., N. W.,	Camden, S. C.
Upton, Frank,	1242 10th St., N. W.,	Adams, Mass.
Widom, Morris,	344 H St., N. W.,	Washington, D. C.

## DEGREES OF DOCTOR OF DENTAL SURGERY (1919).

Brogan, James William.....	Massachusetts.
Buckley, Patrick Joseph.....	Massachusetts.
Carp, Harry M.....	Massachusetts.
Casey, Maurice A.....	Massachusetts.
Clancy, John F.....	Massachusetts.
Connors, William Vincent.....	Pennsylvania.
Cotter, Edmund J.....	New York.
Finnerty, Raymond Joseph.....	New Jersey.
Gaynor, Francis J.....	Pennsylvania.
Hanlon, John Bernard.....	Pennsylvania.
Hanlon, Thomas Gerard.....	New Jersey.
Harris, Michael .....	Rhode Island.
Hite, Heskett Alfred.....	Virginia.
Hunt, William Clyde.....	Ohio.
Kelleher, Francis Aloysius.....	New York.
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